February 8, 2006

1

VIA CERTIFIED MAIL

Mary Logan U S EPA Region V (SR-6J) 77 W Jackson Boulevard Chicago, IL 60604-3590

RUTGERS Organics Corporation

Shella Abraham
Ohio EPA - NE District Office
Div Of Emergency & Remedial Response
2110 East Aurora Road
Twinsburg, OH 44087

Remedial Response Section Manager Ohio EPA - DERR P O Box 1049 Lazarus Government Center Office 122 South Front Street Columbus, OH 43216-1049

Re: JANUARY 2006 MONTHLY REPORT

RI/FS & REMOVAL ACTION NEASE CHEMICAL SITE

SALEM, OHIO

In accordance with Paragraph X E of the Administrative Order by Consent regarding a Remedial Investigation/Feasibility Study (RI/FS) of the Nease Chemical Site in Salem, Ohio, attached is a copy of the January 2006 RI/FS Progress Report

Additionally, in accordance with Paragraph 14 of the Administrative Order by Consent, signed November 17, 1993, attached is a copy of the January 2006 Removal Action Progress Report

Please contact us if you have any questions regarding activities discussed in these reports

Sincerely.

Dr. Rainer F. Domalski

Manager Remediation Projects

Enclosure

cc: M. Hardy – Thompson Hine

Steve Finn - Golder Associates, Inc.

020806

201 Struble Road State College, PA 16801

Phone 814-238-2424 Fax 814-238-1567 web-site http RUETGERS-ORGANICS-CORP COM

Member of the RUTGERS Chemicals Group

US EPA RECORDS CENTER REGION 5

NEASE CHEMICAL SITE, SALEM, OHIO REMEDIAL INVESTIGATION/FEASIBILITY STUDY MONTHLY PROGRESS REPORT JANUARY 2006

1.0 INTRODUCTION

This progress report has been prepared in accordance with Paragraph XE of the Administrative Order of Consent regarding a Remedial Investigation/Feasibility Study of the Nease Chemical Site in Salem, Ohio The report summarizes the major RI/FS actions during the month along with investigation results and any problems encountered in the project. Activities planned for next month are also presented.

2.0 SUMMARY OF ACTIVITIES PERFORMED

2 1 PROJECT ACTIVITY SUMMARY

The activities that were initiated and/or completed during the month are described. All activities were performed in accordance with the detailed protocol provided in the approved Work Plan.

22 FIELDWORK

None

2.3 REPORTS

2.3 1 REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS)

The final Record of Decision for Operational Unit #2 (onsite) was signed by the agency on September 29, 2005. The agency submitted a draft Administrative Order of Consent (AOC) for the pre-design investigation and design of the remedial action to ROC at the beginning of January 2006. ROC made a good faith offer to negotiate the AOC with he agency

In preparation of the upcoming Feasibility Study (FS) for OU-3 (Feeder Creek, MFLBC), the agencies and ROC agreed on additional sampling in the MFLBC including sediment, fish, surface water and flood plain soil to have a sufficient data base for the study. The first step, the reconnaissance of sediment bodies in the MFLBC, was performed from August 1 through 15, 2005. Sediment and fish samples were taken in the week of October 10, 2005, the surface water samples in the last October week. The analytical results of the samples taken were validated by the ROC's technical consultant. Sampling locations for the flood plain soil were determined. Ohio EPA has contacted the property owners at these locations and informed them the upcoming event. ROC is currently obtaining an access agreement with the owners.

2.4 MEETINGS

None

3.0 VARIATIONS FROM THE APPROVED RI/FS WORK PLAN

None

4.0 RESULTS OF SAMPLING, TESTS AND ANALYSES

None

5.0 PROJECT SCHEDULE

The current Work Plan schedule identifies completion and target dates for project activities. Those scheduled to occur over the next several months include.

• Feasibility Study OU-3 (Feeder Creek, Middle Fork of Little Beaver Creek)

6.0 DIFFICULTIES ENCOUNTERED AND ACTION TAKEN TO RESOLVE PROBLEMS

No significant difficulties were encountered.

7.0 PERSONNEL CHANGES

None

8.0 ANTICIPATED PROJECT ACTIVITIES FOR RFEBRUARY 2006

- Monthly Progress Report January 2006
- Develop data base for upcoming FS for OU-3 (Feeder Creek/Middle Fork of Little Beaver Creek)
- MFLBC Flood plain sampling Access to private properties

020806

TABLE 1 NEASE CHEMICAL SITE, SALEM, OHIO RI/FS SCHEDULE

DATE	TASK/ACTIVITY/DELIVERABLE/MILESTONE
	Documentation of the Site Activities through July 31, 2004 can be reviewed in the July 2004 Monthly Progress Report
	Trestenda in the early 200 r mentally ringress respect
August 30, 2004	US EPA Region V/ OEPA approve Endangerment Assessment
September 1, 2004	Draft Feasibility Study (OU-2) submitted to the agencies for review
September 9, 2004	Submit Monthly Progress Report
September 13, 2004	Submit Final Revision to Endangerment Assessment
October 8, 2004	Submit Monthly Progress Report
November 10, 2004	Submit Monthly Progress Report
November 22, 2004	Received Agencies' comments for draft FS (OU-2)
December 10, 2004	Submit Monthly Progress Report
January 10, 2005	Submit Monthly Progress Report
February 10, 2005	Submit Monthly Progress Report
March 1, 2005	Final Draft Feasibility Study (OU-2) submitted to agencies for review
March 4, 2005	Submit Monthly Progress Report
Aprıl 8, 2005	Submit Monthly Progress Report
Aprıl 21, 2005	US EPA Region V/OEPA approve Final Feasibility Study for OU-2
May 9, 2005	Submit Monthly Progress Report
May 31, 2005	US EPA Region V published the Proposed Remedial Action the OU-2 (onsite)
June 9, 2005	Submit Monthly Progress Report
July 8, 2005	Submit Monthly Progress Report
August 10, 2005	Submit Monthly Progress Report
Aug 1 – 15, 2005	MFLBC - Reconnaissance of sediment bodies
September 9, 2005	Submit Monthly Progress Report
September 29, 2005	US EPA Region V signs Final Record of Decision for OU-2
October 10, 2005	Submit Monthly Progress Report
November 9, 2005	Submit Monthly Progress Report
December 8, 2005	Submit Monthly Progress Report
January 9, 2006	Submit Monthly Progress Report
February 8, 2006	Submit Monthly Progress Report

020806

NEASE CHEMICAL SITE, SALEM, OHIO REMOVAL ACTION MONTHLY PROGRESS REPORT JANAURY 2006

1.0 INTRODUCTION

This progress report has been prepared in accordance with Paragraph 14 of the "Order" section of the Administrative Order by Consent (AOC) Docket No. V-W-94-C-212, effective November 17, 1993, regarding a Removal Action for the Nease Chemical Site in Salem, Ohio The report summarizes the major activities during the month along with investigation results and any problems encountered on the project. Activities planned for next month are also presented

2.0 SUMMARY OF ACTIVITIES PERFORMED

2.1 PROJECT ACTIVITY

The activities that were initiated and/or completed during this month are described below Activities were performed in accordance with the Removal Action AOC

The agencies and ROC discussed modifications of the existing onsite groundwater treatment system to optimize the protection against spills. ROC summarized the modifications agreed by the parties in a letter to the agencies. The necessary scope of work is currently for bid at several contractors.

2.2 WORK PLAN PREPARATION/REPORTS

No work plans/reports were submitted this period.

2 3 FIELDWORK

2 3.1 SITE INSPECTIONS

The results of the monthly site inspection carried out at the site on January 23, 2006 are shown in Attachment 1.

2 3 2 MONTHLY WATER LEVEL MEASUREMENTS

The next water level measurements are planned for February 2006.

2.3.3 TREATMENT PLANT OPERATION

The treatment plant operated mostly normal throughout the month

2411 MEETINGS

None

3.0 VARIATIONS FROM THE APPROVED REMOVAL ACTION WORK PLAN

None

4.0 RESULTS OF INSPECTIONS, ENVIRONMENTAL SAMPLING, TESTS AND ANALYSES

Water monitoring samples were collected from the treatment plant on December 20, 2005, January 3 and 17, 2006 (see Attachments 2, 3, and 4, Lab. Exygen Research) The next sampling for acute/chronic toxicity will be conducted in February 2006.

5.0 PROJECT SCHEDULE

The updated Work Plan schedule identifies completion and target dates for project activities

6.0 DIFFICULTIES ENCOUNTERED AND ACTION TAKEN TO RESOLVE PROBLEMS

As result of an OEPA site inspection in April 2004 and the overflow of the GWTP influent tank in June 2004 ROC has proposed some modification of the groundwater treatment system US EPA Region V and OEPA approved the proposed changes Golder, ROC's consultant, has submitted a detailed design that will be subject to the agencies' review Final modifications were agreed on during a conference call on August 16, 2005. The results were summarized in a letter report to the agencies. Golder submitted bidding documents to several contractors.

7.0 PERSONNEL CHANGES

No personnel changes occurred during month.

8.0 TYPES AND QUANTITIES OF REMOVED MATERIALS

For the period from January 1through 31, 2006 the following material was removed

- 15,000 gallons of leachate and/or backwash water were disposed off-site at a licensed treatment facility.
- Approximately 91,259 gallons were pumped from Leachate Collection System 1 (LCS-1) (total for LCS-1 =18,168,886 gal)
- Approximately 9,658 gallons were pumped from Leachate Collection System 2 (LCS-2) (total for LCS-2 = 1,399,521 gal).
- No water was pumped from Pond 1 (total for the pond = 962,084 gallons).
- Approximately 14 pounds of organic compounds were removed during pumping (estimate based on average VOC/SVOC concentrations for each source).

9.0 ANTICIPATED PROJECT ACTIVITIES FOR FEBRUARY 2006

Removal Action activities scheduled for the upcoming month include on-going implementation of the approved Removal Action Work Plan involving:

- Collection of groundwater from the existing collection systems LCS-1, LCS-2 and Pond 1
- Implementation of planned treatment plant modifications Bidding
- Monthly Progress Report for January 2006

020806

TABLE 1 NEASE CHEMICAL SITE, SALEM, OHIO REMOVAL ACTION SCHEDULE

DATE	TASK/ACTIVITY/DELIVERABLE/MILESTONE
	Documentation of the Site Activities through July 31, 2004 can be reviewed in the July 2004 Monthly Progress Report
September 9, 2004	Submit Monthly Progress Report
October 8, 2004	Submit Monthly Progress Report
November 10, 2004	Submit Monthly Progress Report
December 10, 2004	Submit Monthly Progress Report
January 10, 2005	Submit Monthly Progress Report
February 10, 2005	Submit Monthly Progress Report
March 4, 2005	Submit Monthly Progress Report
Aprıl 8, 2005	Submit Monthly Progress Report
May 9, 2005	Submit Monthly Progress Report
June 9, 2005	Submit Monthly progress Report
July 8, 2005	Submit Monthly Progress Report
August 10, 2005	Submit Monthly Progress Report
September 9, 2005	Submit Monthly Progress Report
October 10, 2005	Submit Monthly Progress Report
November 9, 2005	Submit Monthly Progress Report
December 8, 2005	Submit Monthly Progress Report
January 9, 2006	Submit Monthly Progress Report
February 8, 2006	Submit Monthly Progress Report

ATTACHMENT 1

RESULTS OF MONTHLY SITE INSPECTION NEASE CHEMICAL SITE, SALEM, OHIO JANUARY 2006

SITE INSPECTION FORM RUETGERS-NEASE CORPORATION Nease Site, Salem, Ohio

Date of Inspection:/-23-06			
Entry Time: <u>1200 HRS</u>	Exit Time:	1600 HRS.	
Weather: Court + Coc	_		
Inspector's Name: DENNIS L. LAN	ue.		
	vells and Baird, Inc.		

INSPECTION RESULTS

SPECIFIC OBSERVATIONS:

Structures

(Responses: S = Satisfactory U = Unsatisfactory Yes/No Levels Measured in Feet, N/A = Not Applicable)

	Pump	Quick Connect	Water Level	Berm Erosion	Visible Leakage
Leachate Collection System 1 (LCS-1)	S	S	8.13	N/A	No
Leachate Collection System 2 (LCS-2)	S	S	11.61	N/A	No
Pond 1 Pumphouse	S	S	9.13	N/A	No
Pond 1 Berm	N/A	N/A	NA	No	No
Pond 2 Embankment	N/A	N/A	N/A	No	No
Exclusion Area A Embankment	N/A	N/A	N/A	No	No
Storage Tank	NA	Ś	6.75	N/A	No
Other (specify)	1			,	

SPECIFIC OBSERVATIONS:

Sediment Barriers

Condition of Sediment Barriers

Barrier ID	Fabric Intact?	By Passing Evident?	Is Maintenance Necessary?
Sediment Control Structure 1	YES	No	N.
Sediment Control Structure 2	YES	No	No
Fabric Barrier 2	YES	No	No
Fabric Barrier 3	YES	No	No
Fabric Barrier 4	YES	No	N _o
Fabric Barrier 5	YES	No	No
Fabric Barrier 8	YES	No	No
Fabric Barrier 9	YES	No	No
Fabric Barrier 10	YES	No	No
Rock Barrier 1	YES	N.	No
Rock Barrier 2	Yes	No	No
Pond 7 - North	YES	No	No
Pond 7 - South	YES	No	No

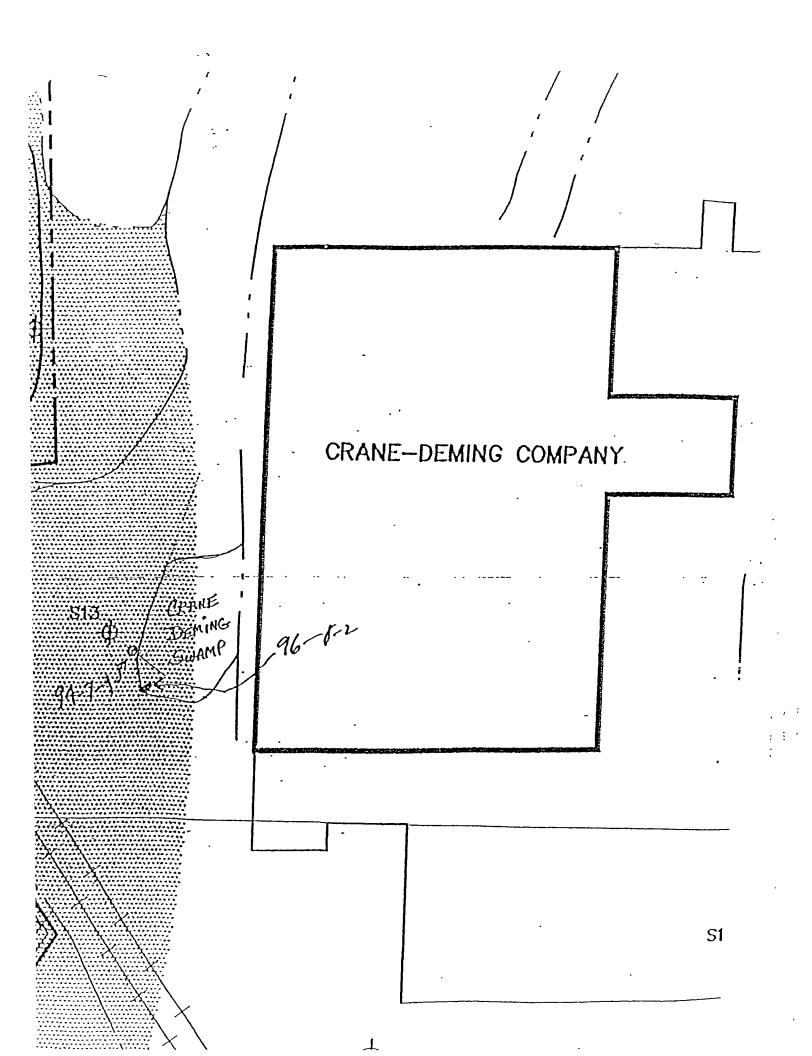
SPECIFIC OBSERVATIONS:

Seeps (if present, use more forms, as necessary)

Seep ID (yr-month-#)	Located on Map	Areal Extent (ft 2)	Magnitude (flow?, ponding?)
94-7-1	YES	20	NON-FROWING SEEP
96-8-2	YES	20	NON-FLOWING SEEP

Note Seep ID # equal the "nth' observed seep during the yr-month in question

ADDITIONAL OBSERVATION OR REMARKS:	
Inspector's Name: DENNIS L. LANE	
Inspector's Name: DENNIS L. LANE Inspector's Signature: Lemis L. Jane	
Date: 1-23-06	



ATTACHMENT 2

WATER SAMPLING RESULTS – DECEMBER 20, 2005 NEASE CHEMICAL SITE, SALEM, OHIO



STL North Canton 4101 Shuffel Drive NW North Canton, OH 44720

Tel: 330 497 9396 Fax: 330 497 0772 www.stl-inc.com

ANALYTICAL REPORT

Lot #: A5L220296

Jeff Biss

Exygen Research 3058 Research Drive State College, PA 16801

SEVERN TRENT LABORATORIES, INC.

Frank J. Calovini
Project Manager

December 29, 2005

1

CASE NARRATIVE

A5L220296

The following report contains the analytical results for three water samples submitted to STL North Canton by Exygen Research. The samples were received December 22, 2005, according to documented sample acceptance procedures.

STL utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

STL North Canton attests to the validity of the laboratory data generated by STL facilities reported herein. All analyses performed by STL facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. STL's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

If you have any questions, please call the Project Manager, Frank J. Calovini, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT." The total number of pages in this report is 18.

SUPPLEMENTAL OC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 5.1°C.

See STL's Cooler Receipt Form for additional information.

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

EXECUTIVE SUMMARY - Detection Highlights

A5L220296

PARAMETER		RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
CO131381 12/20/05 13:00	001				
Total Dissolved Solids		550	10	mg/L	MCAWW 160.1
Total Suspended Solids		33	4.0	mg/L	MCAWW 160.2
CO131391 12/20/05 13:00	002				
Total Dissolved Solids		530	10	mg/L	MCAWW 160.1
CO131405 12/20/05 13:00	003				
Total Dissolved Solids		510	10	mg/L	MCAWW 160.1

ANALYTICAL METHODS SUMMARY

A5L220296

PARAMETER	ANALYTICAL METHOD
Filterable Residue (TDS)	MCAWW 160.1
Non-Filterable Residue (TSS)	MCAWW 160.2

References:

MCAWW

"Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SAMPLE SUMMARY

A5L220296

WO # SAMPLE	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
HTNQR 001	CO131381	12/20/05	13:00
HTNQX 002	CO131391	12/20/05	
HTNQ0 003	CO131405	12/20/05	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages
- All calculations are performed before rounding to avoid round-off errors in calculated results
- Results noted as "ND" were not detected at or above the stated limit
- This report must not be reproduced, except in full, without the written approval of the laboratory
- Results for the following parameters are never reported on a dry weight basis color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight

EXYGEN RESEARCH

Client Sample ID: C0131381

General Chemistry

Lot-Sample #...: A5L220296-001 Work Order #...: HTNQR Matrix..... WG

Date Sampled...: 12/20/05 13:00 Date Received..: 12/22/05

PARAMETER Total Dissolved Solids	RESULT 550	RL 10	UNITS mg/L	METHOD MCAWW 160.1	PREPARATION- ANALYSIS DATE 12/23-12/27/05	PREP <u>BATCH</u> # 5357326
	Dı	lution Fact	or 1			
Total Suspended Solids	33	4.0	mg/L	MCAWW 160.2	12/23/05	5357322

Dilution Factor: 1

EXYGEN RESEARCH

Client Sample ID: CO131391

General Chemistry

Lot-Sample #...: A5L220296-002 Work Order #...: HTNQX Matrix.....: WG

Date Sampled...: 12/20/05 13:00 Date Received..: 12/22/05

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids	530	10	mg/L	MCAWW 160.1	12/23-12/27/0	5 5357326
	DI	iucion rac				
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	12/23/05	5357322

Dilution Factor: 1

EXYGEN RESEARCH

Client Sample ID: CO131405

General Chemistry

Lot-Sample #...: A5L220296-003 Work Order #...: HTNQ0 Matrix.....: WG

Date Sampled...: 12/20/05 13:00 Date Received..: 12/22/05

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids	510	10	mg/L	MCAWW 160.1	12/23-12/27/05	5357326
	D1.	lution Fac	tor: 1			
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	12/23/05	5357322

Dilution Factor: 1



QUALITY CONTROL SECTION

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A5L220296 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	G <u>UNITS</u>	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids		Work Order	#: HTQXK1AA	MB Lot-Sample #:	A5L230000-326	
	ND	10 Dilution Fact	mg/L cor: 1	MCAWW 160.1	12/23-12/27/05	5357326
Total Suspended Solids		Work Order	#: HTQVJ1AA	MB Lot-Sample #:	A5L230000-322	
	ND	4.0 Dilution Fact	mg/L cor: 1	MCAWW 160.2	12/23/05	5357322

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD		PREPARA'		PREP BATCH #
Total Dissolved			#: HTQXK1AC	LCS Lot.			
Solids		WOIR OIGEI	#. IIIQAKIAC	нев нес	Sampiem.	AJUZJOOOO	320
	98	(88 - 110)	MCAWW 160.1		12/23-1	2/27/05	5357326
		Dilution Fact	cor: 2				
Total Suspended Solids		Work Order	#: HTQVJ1AC	LCS Lot	-Sample#:	A5L230000	-322
	95	(73 - 113) Dilution Fact	MCAWW 160.2		12/2	3/05	5357322

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A5L220296 Work Order #...: HTMHJ-SMP Matrix.....: WATER

HTMHJ-DUP

Date Sampled...: 12/21/05 14:00 Date Received..: 12/22/05

Dilution Factor: 1

 PARAM RESULT
 RESULT
 UNITS
 RPD
 PREPARATION- ANALYSIS DATE
 PREPARATION- BATCH # BATC

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A5L220296 Work Order #...: HTF8X-SMP Matrix.....: WATER

HTF8X-DUP

Date Sampled...: 12/16/05 08:30 Date Received..: 12/20/05

PARAM RESULT Total Dissolved	DUPLICATE RESULT			RPD LIMIT	METHOD SD Lot-Sample #:	PREPARATION- ANALYSIS DATE A5L200193-014	PREP BATCH #
Solids 620	610	mg/L	2.9	(0-20)	MCAWW 160.1	12/23-12/27/05	5357326
	1	Dilution Fac	tor 1	,			

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A5L220296 Work Order #...: HTNQ5-SMP Matrix.....: WATER

HTNQ5-DUP

Date Sampled...: 12/22/05 12:05 Date Received..: 12/22/05

PARAM RESULT Total Dissolved	DUPLICATE RESULT UNITS RPD		RPD LIMIT	METHOD SD Lot-Sample #:		PREP BATCH #	
Solids 255	252	mg/L Dilution Fact		(0-20)	MCAWW 160.1	12/23-12/27/05	5357327

NTS ons:

Canton

North



CHAIN OF CUSTODY/ANALYSIS REQUEST FORM

Exygen Research Sample Receiving • 3048 Research Drive • State College, PA 16801, USA T: 814.231.8032 • F: 814.231.1580 • exygenresearch.com PROJECT INFORMATION **ANALYSES REQUESTED** Project Manager (Name & E-mail Address): Client (name & address): EXYGEN PATROPCH Jeff Biss Project Name: Please fill out this form *completely* to ensure correct analysis and proper handling of your samples. Specify Matrix SAMPLE ANALYSIS Collection Collection Client Sample Identification Comments EXYLIMS# Time Dhake CO 13138/ 1300 WISTEG 12 dellar Co 131391 1 letel 1200 126065 CO 13/405 W5796 1200 PROJECT REQUIREMENTS **CHAIN OF CUSTODY** Cooler ID # Cooler Temp. (°C) Results Deadline: Relinquished by, Time **Laboratory Report Options:** 12/21/0 1549 Sample results only Add case narrative Add quality control summary Add calibration summary Add raw data OTHER INFORMATION ☐ Other _____

STL Cooler Receip	of Form/Narrative Lot Number	: A5L2202	Harris II			
North Canton Fac	ાર્જ કર્યું છે. જે ક્લાક્ષ્મણ ભાગામાં કર્યું કે મુશ્કાર કર્યા હતા. તાલણ કર્યું કર્યા કે બોલોક હ્યું Ility એક માર્ચ મુશ્કાન ફાર્ય કર્યું કે મુશ્કાર કર્યું કર્યા છે. તેમ છે	그래 관련관합하다 그는 말을 다는 것은	r Agrical Marine in the second			
Client: Exugen R		Quote#:	AA an			
Cooler Received on:		by Canada	(Signature)			
Fedx Client Drop O						
Stetson US Cargo	Other:	Logica				
STL Cooler No#	Foam Box Client Cooler	Otheract? Yes \textsquare No \textsquare] NA [
II	n the outside of the cooler? Yes 🔲 No 📝 Int	act? Yes 🗌 No [
If YES, Quantity		s No NA	/			
Were the custody sea			뇓			
2. Shipper's packing sli	p attached to this form?	Inquished by client?	Yes No No			
3. Did custody papers a		s No	162 [V] 140 []			
	<u> </u>					
		her :				
	pon receipt 5:1 °C (see back of form for multiple	coolers/temp)	-0 Clares [7]			
II = = = = = = = = = = = = = = = = = =	Coolant & Sample Against Bottles Water		20 Slurry 🔲			
COOLANT: Wet Ice		None ☐ Yes ✓ No ☐				
	in good condition (Unbroken)?	Yes No No				
	s and/or tags be reconciled with the COC? correct pH? (record below/on back)		A 🔽			
	used for the tests indicated?	Yes No	υ [Σ]			
11. Were air bubbles >6			A M			
4	eceived to perform indicated analyses?	Yes No	u 🔊			
	esent in the cooler? Yes \(\sigma\) No \(\sigma\) Were VOAs on	اسط لبتا	No 17			
	number match the cooler number in which it was received		NA T			
Contacted PM FJC		ce Mail Verbal				
Concerning: Tost		oc man [
7	· 注意學是哲學生學哲學哲學學學學學學		the state of the second of the			
1. CHAIN OF CUSTOR		i ii				
The following disci	repancies occurred:					
1 OH is not	listed on COC, is listed on by	othes-alls	anoles,			
V W:11	not los for OH 200 F.IC.					
	J 7,7					
2. SAMPLE CONDITION						
Sample(s)_	were received after the re		time had expired.			
Sample(s)	were received in a bro	ken container.				
3. SAMPLE PRESERV						
Sample(s)		served in sample rece				
recommended pH level(s). Nitric Acid Lot # 100405-HNO3; Sulfuric Acid Lot # 100405-H2SO4; Sodium Hydroxide Lot # -100405 -NaOH;						
Hydrochloric Acid Lot # 100504-HCl; Sodium Hydroxide and Zinc Acetate Lot # 071604-CH3COO2ZN/NaOH						
0 10						
Sample(s)	were received with bubble >					
Sample(s) 4. Other (see below or t						
4. Other (see below or t	ack)	6 mm in diameter (co	e: PM)			
4. Other (see below or t	ack)	6 mm in diameter (co	e: PM)			
4. Other (see below or t	ack)	6 mm in diameter (co	e: PM)			

STL Cooler Receipt Form/Narrative North Canton Facility

Client ID		A CONTROL OF THE STATE OF THE S	Ymidiala
Cheat ID	рН	Date	Initials
<u> </u>			
			-
Cooler	Тетр	Method	Coolant
			-
	<u></u>		
Discrepancies Cont.			
			-



END OF REPORT

Attachment E

Data Summary, Severn Trent Laboratories (Knoxville)



STL Knoxville 5815 Middlebrook Pike Knoxville, TN 37921

Tel: 865 291 3000 Fax: 865 584 4315 www.stl-inc.com

ANALYTICAL REPORT

State College - TO14

Lot #: H5L220269

Jeff Biss

Exygen Research 3058 Research Drive State College, PA 16801

SEVERN TRENT LABORATORIES, INC.

Scott A. Harris Project Manager

December 29, 2005

H5L220269 Analytical Report	1
Sample Receipt Documentation	17
Total Number of Pages	18

•

Original Chain of Custody Documentation

H5L22 0269



Client (name & address):

Fax:

ExyLIMS#

LAR USE ONLY

Relinquished by

PROJECT INFORMATION

EXXGEN Research

SAMPLE ANALYSIS

COISIYIZ

Phone:

Sampler:

Client Sample Identification

CHAIN OF CUSTODY

OTHER INFORMATION SENT PRESENT

rectemp Ambient traching 12465 7501 46 581064

CHAIN OF CUSTODY/ANALYSIS REQUEST FORM

Comments

Cooler Temp. (°C)

Time

1400

Date

12/27/05

and graves in the Contraction

Exygen Research Sample Receiving • 3048 Research Drive • State College, PA 16801, USA T: 814.231.8032 • F: 814.231.1580 • exygenresearch.com

Project Manager (Name & E-mail Address): $\uparrow eff \ \Omega ; \zeta \zeta$

Project Name:

Composite

Please fill out this form *completely* to ensure correct analysis and proper handling of your samples.

Collection Collection

Time

1200

Date

12AO/OT

HORT

Time

1630

Date 12/11/6 r P.O. #: 14/4

Quotation #:

Cooler ID #

LAB USE ONLY

7- (9-5

()-Flows

O Outrainer of Specify Matrix

,	Page		of _	
ANALY	SES RE	QUE	STEL) ****
VOC -5360				
Valla		1		
X				
		-		
	++			
			i	
PROJE	CT REC	UIRE	MEI	NTS
Labora San Add	tory Renple resudicase nad quality of calibrat	port C Its only rrative control	sumn	nary

EXECUTIVE SUMMARY - Detection Highlights

H5L220269

PARAMETER CO131413 12/20/05 13:00 001	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Ethylbenzene m-Xylene & p-Xylene o-Xylene 1,2-Dichlorobenzene	3.6 17 6.1 1.1	1.0 1.0 1.0	ppb (v/v) ppb (v/v) ppb (v/v) ppb (v/v)	EPA-19 TO-14 EPA-19 TO-14 EPA-19 TO-14 EPA-19 TO-14

ANALYTICAL METHODS SUMMARY

H5L220269

	ANALYTICAL
PARAMETER	METHOD
Volatile Organics by TO14	EPA-19 TO-14

References:

"Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA/600/4-89/017, January 1988

SAMPLE SUMMARY

H5L220269

<u>wo # s</u>	AMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP EMIT
HTNDW HTND3	001 002	CO131413 CO131414	12/20/05 12/20/05	
MONTH (C)	_			

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages
- All calculations are performed before rounding to avoid round-off errors in calculated results
- Results noted as "ND" were not detected at or above the stated limit
- This report must not be reproduced, except in full, without the written approval of the laboratory
- Results for the following parameters are never reported on a dry weight basis color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight

PROJECT NARRATIVE H5L220269

The results reported herein are applicable to the samples submitted for analysis only.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The original chain of custody documentation is included with this report.

Sample Receipt

There were no problems with the condition of the samples received.

Quality Control

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

STL Knoxville maintains the following certifications, approvals and accreditations. Arkansas DEQ Cert. #05-043-0, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906 (SDWA, expires 6/24/05), Hawaii DOH, Illinois EPA Cert. #000687, Indiana DOH Cert. #C-TN-02, Iowa DNR Cert. #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH Cert. #LA030024, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Ohio EPA VAP Cert #CL0059, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-00576, South Carolina DHEC Lab ID #84001001, Tennessee DOH Lab ID #02014, Utah DOH Cert # QUAN3, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, West Virginia DEP Cert #345, Wisconsin DNR Lab ID #998044300, US Army Corps of Engineers, Naval Facilities Engineering Service Center and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

Client Sample ID: CO131413

GC/MS Volatiles

Lot-Sample #...: H5L220269-001 Work Order #...: HTNDW1AA Matrix.... AIR

Date Sampled...: 12/20/05 Date Received..: 12/22/05 Prep Date....: 12/22/05 Analysis Date..: 12/23/05

Prep Batch #...: 5357047

Dilution Factor: 1.23 Method..... EPA-19 TO-14

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Bromodichloromethane	ND	1.0	ppb (v/v)
Bromoform	ND	1.0	ppb (v/v)
Dibromochloromethane	ND		
		1.0	ppb (v/v)
Dibromomethane	ND	1.0	ppb (v/v)
trans-1,2-Dichloroethene	ND	1.0	ppb (v/v)
Cumene	ND	1.0	ppb (v/v)
n-Propylbenzene	ND	1.0	ppb(v/v)
1,2,3-Trichloropropane	ND	2.5	ppb(v/v)
Dichlorodifluoromethane	ND	2.0	ppb(v/v)
Vinyl chloride	ND	2.0	ppb(v/v)
Chloroethane	ND	2.0	ppb (v/v)
Trichlorofluoromethane	ND	2.0	ppb(v/v)
1,1-Dichloroethene	ND	1.0	ppb(v/v)
1,1-Dichloroethane	ND	1.0	ppb(v/v)
cis-1,2-Dichloroethene	ND	1.0	ppb(v/v)
Chloroform	ND	1.0	ppb(v/v)
1,1,1-Trichloroethane	ND	1.0	ppb(v/v)
Carbon tetrachloride	ND	1.0	ppb(v/v)
Benzene	ND	1.0	ppb(v/v)
1,2-Dichloroethane	ND	1.0	ppb(v/v)
Trichloroethene	ND	1.0	ppb(v/v)
1,2-Dichloropropane	ND	1.0	ppb(v/v)
cis-1,3-Dichloropropene	ND	1.0	ppb(v/v)
Toluene	ND	1.0	ppb(v/v)
trans-1,3-Dichloropropene	ND	1.0	ppb(v/v)
1,1,2-Trichloroethane	ND	1.0	ppb(v/v)
Tetrachloroethene	ND	1.0	ppb(v/v)
1,2-Dibromoethane (EDB)	ИD	1.0	ppb(v/v)
Chlorobenzene	ND	1.0	ppb(v/v)
Ethylbenzene	3.6	1.0	ppb (v/v)
m-Xylene & p-Xylene	17	1.0	ppb (v/v)
o-Xylene	6.1	1.0	ppb (v/v)
Styrene	ND	1.0	ppb (v/v)
1,1,2,2-Tetrachloroethane	ND	1.0	ppb (v/v)
1,3,5-Trimethylbenzene	ND	1.0	ppb (v/v)
1,3-Dichlorobenzene	ND		
1,4-Dichlorobenzene		1.0	ppb (v/v)
1,2-Dichlorobenzene	ND	1.0	ppb (v/v)
1,2-DICHTOTODeHZeHe	1.1	1.0	ppb (v/v)

(Continued on next page)

Client Sample ID: CO131413

GC/MS Volatiles

Lot-Sample #...: H5L220269-001 Work Order #...: HTNDW1AA Matrix...... AIR

	PERCENT	RECOVERY
SURROGATE	RECOVERY	LIMITS
1,2-Dichloroethane-d4	107	(70 - 130)
Toluene-d8	108	(70 - 130)
4-Bromofluorobenzene	106	(70 - 130)

CO131413

GC/MS Volatiles

Lot-Sample #: H5L220269-001 Work Order #: HTNDW1AA Matrix: AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

		ESTIMATED	RETENTION	1
PARAMETER	CAS #	RESULT	TIME	UNITS
Methyl Alcohol	67-56-1	110 NJ M	3.982	ppb(v/v)
Butane	106-97-8	1.5 NJ M	1 4.1114	ppb(v/v)
Ethyl alcohol	64-17-5	1.5 NJ M	1 4.6668	ppb (v/v)
Acetonitrile	75-05-8	1.3 NJ M	5.2384	ppb(v/v)
Acetone	67-64-1	1.3 NJ M	5.2869	ppb(v/v)
Methyl Isobutyl Ketone	108-10-1	1.9 NJ M	1 12.917	ppb(v/v)
Benzene, 1-ethyl-3-methyl-	620-14-4	2.7 NJ M	18.012	ppb(v/v)
Benzene, 1,2,4-trimethyl-	95-63-6	4.5 NJ M	1 18.552	ppb(v/v)

NOTE(S):

M. Result was measured against nearest internal standard assuming a response factor of 1.

Client Sample ID: CO131414

GC/MS Volatiles

Lot-Sample #...: H5L220269-002 Work Order #...: HTND31AA Matrix...... AIR

Date Sampled...: 12/20/05 Date Received..: 12/22/05
Prep Date....: 12/22/05 Analysis Date..: 12/23/05

Prep Batch #...: 5357047

Dilution Factor: 1.22 Method..... EPA-19 TO-14

PARAMETER			REPORTIN	īC
Bromodichloromethane	PARAMETER	RESULT		
Bromoform				
Dibromochloromethane				
Dibromomethane				
trans-1, 2-Dichloroethene ND 1.0 ppb(v/v) Cumene ND 1.0 ppb(v/v) n-Propylbenzene ND 1.0 ppb(v/v) 1,2,3-Trichloropropane ND 2.5 ppb(v/v) Dichlorodifluoromethane ND 2.0 ppb(v/v) Vinyl chloride ND 2.0 ppb(v/v) Chloroethane ND 2.0 ppb(v/v) Trichlorofluoromethane ND 2.0 ppb(v/v) Trichloroethane ND 1.0 ppb(v/v) 1,1-Dichloroethane ND 1.0 ppb(v/v) 1,1-Dichloroethane ND 1.0 ppb(v/v) 1,1-Trichloroethane ND 1.0 ppb(v/v) Chloroform ND 1.0 ppb(v/v) Carbon tetrachloride ND 1.0 ppb(v/v) Benzene ND 1.0 ppb(v/v) Trichloroethane ND 1.0 ppb(v/v) Trichloroethane ND 1.0 ppb(v/v)	Dibromomethane			
Cumene ND 1.0 ppb(v/v) n-Propylbenzene ND 1.0 ppb(v/v) 1,2,3-Trichloropropane ND 2.5 ppb(v/v) Dichlorodifluoromethane ND 2.0 ppb(v/v) Vinyl chloride ND 2.0 ppb(v/v) Chloroethane ND 2.0 ppb(v/v) Trichloroethane ND 2.0 ppb(v/v) Trichloroethane ND 2.0 ppb(v/v) 1,1-Dichloroethane ND 1.0 ppb(v/v) 1,1-Dichloroethane ND 1.0 ppb(v/v) cis-1,2-Dichloroethane ND 1.0 ppb(v/v) Chloroform ND 1.0 ppb(v/v) 1,1,1-Trichloroethane ND 1.0 ppb(v/v) Carbon tetrachloride ND 1.0 ppb(v/v) Benzene ND 1.0 ppb(v/v) 1,2-Dichloroptopane ND 1.0 ppb(v/v) Trichloroptopane ND 1.0 ppb(v/v)				
ND	•	,	 · -	
1,2,3-Trichloropropane			- · ·	
Dichlorodifluoromethane ND 2.0 ppb(v/v) Vinyl chloride ND 2.0 ppb(v/v) Chloroethane ND 2.0 ppb(v/v) Trichlorofluoromethane ND 2.0 ppb(v/v) Trichloroethene ND 1.0 ppb(v/v) 1,1-Dichloroethane ND 1.0 ppb(v/v) cis-1,2-Dichloroethane ND 1.0 ppb(v/v) Chloroform ND 1.0 ppb(v/v) 1,1-Trichloroethane ND 1.0 ppb(v/v) 1,1-Trichloroethane ND 1.0 ppb(v/v) Carbon tetrachloride ND 1.0 ppb(v/v) Benzene ND 1.0 ppb(v/v) 1,2-Dichloroethane ND 1.0 ppb(v/v) 1,2-Dichloropropane ND 1.0 ppb(v/v) 1,1,2-Trichloroethane ND 1.0 ppb(v/v) 1,1,2-Trichloroethane ND 1.0 ppb(v/v) 1,2-Dibromoethane (EDB) ND 1.0 <		ND	- : -	
Vinyl chloride ND 2.0 ppb(v/v) Chloroethane ND 2.0 ppb(v/v) Trichlorofluoromethane ND 2.0 ppb(v/v) 1,1-Dichloroethene ND 1.0 ppb(v/v) 1,1-Dichloroethane ND 1.0 ppb(v/v) 1,1-Dichloroethane ND 1.0 ppb(v/v) Chloroform ND 1.0 ppb(v/v) 1,1,1-Trichloroethane ND 1.0 ppb(v/v) 1,1,1-Trichloroethane ND 1.0 ppb(v/v) 1,2-Dichloroethane ND 1.0 ppb(v/v) 1,2-Dichloroethane ND 1.0 ppb(v/v) Trichloroethene ND 1.0 ppb(v/v) Toluene ND 1.0 ppb(v/v) Toluene ND 1.0 ppb(v/v) Toluene ND 1.0 ppb(v/v) Tetrachloroethane ND 1.0 ppb(v/v) Tetrachloroethane ND 1.0 ppb(v/v)		_		
Chloroethane ND 2.0 ppb(v/v) Trichlorofluoromethane ND 2.0 ppb(v/v) 1,1-Dichloroethene ND 1.0 ppb(v/v) 1,1-Dichloroethane ND 1.0 ppb(v/v) 1,1-Dichloroethene ND 1.0 ppb(v/v) Chloroform ND 1.0 ppb(v/v) 1,1-Trichloroethane ND 1.0 ppb(v/v) 1,1-Trichloroethane ND 1.0 ppb(v/v) 2-Dichloroethane ND 1.0 ppb(v/v) 1,2-Dichloroethane ND 1.0 ppb(v/v) Trichloroethene ND 1.0 ppb(v/v) Toluene ND<		_		
Trichlorofluoromethane ND 2.0 ppb(v/v) 1,1-Dichloroethene ND 1.0 ppb(v/v) 1,1-Dichloroethane ND 1.0 ppb(v/v) cis-1,2-Dichloroethene ND 1.0 ppb(v/v) Chloroform ND 1.0 ppb(v/v) 1,1,1-Trichloroethane ND 1.0 ppb(v/v) 1,2-Dichloroethane ND 1.0 ppb(v/v) 1,2-Dichloroethane ND 1.0 ppb(v/v) 1,2-Dichloropropane ND 1.0 ppb(v/v) 1,2-Dichloropropane ND 1.0 ppb(v/v) 1,2-Dichloropropene ND 1.0 ppb(v/v) Tcluene ND 1.0 ppb(v/v) Tcluene ND 1.0 ppb(v/v) Tcluene ND 1.0 ppb(v/v) Tclass-1,3-Dichloropropene ND 1.0 ppb(v/v) Tctrachloroethane ND 1.0 ppb(v/v) Tctrachloroethane ND 1.0 ppb(v/v)	-	_		
1,1-Dichloroethane ND 1.0 ppb(v/v) 1,1-Dichloroethane ND 1.0 ppb(v/v) cis-1,2-Dichloroethene ND 1.0 ppb(v/v) Chloroform ND 1.0 ppb(v/v) 1,1,1-Trichloroethane ND 1.0 ppb(v/v) 1,2-Dichloroethane ND 1.0 ppb(v/v) Benzene ND 1.0 ppb(v/v) 1,2-Dichloroethane ND 1.0 ppb(v/v) Trichloroethene ND 1.0 ppb(v/v) 1,2-Dichloropropane ND 1.0 ppb(v/v) cis-1,3-Dichloropropene ND 1.0 ppb(v/v) Toluene ND 1.0 ppb(v/v) trans-1,3-Dichloropropene ND 1.0 ppb(v/v) 1,1,2-Trichloroethane ND 1.0 ppb(v/v) Tetrachloroethane ND 1.0 ppb(v/v) 1,2-Dibromoethane ND 1.0 ppb(v/v) Chlorobenzene ND 1.0 ppb(v/v) Ethylbenzene ND 1.0 ppb(v/v) <				
1,1-Dichloroethane ND 1.0 ppb(v/v) cis-1,2-Dichloroethene ND 1.0 ppb(v/v) Chloroform ND 1.0 ppb(v/v) 1,1,1-Trichloroethane ND 1.0 ppb(v/v) 1,2-Dichloroethane ND 1.0 ppb(v/v) 1,2-Dichloroethane ND 1.0 ppb(v/v) 1,2-Dichloropropane ND 1.0 ppb(v/v) 1,2-Dichloropropane ND 1.0 ppb(v/v) 1,2-Dichloropropene ND 1.0 ppb(v/v) Toluene ND 1.0 ppb(v/v) trans-1,3-Dichloropropene ND 1.0 ppb(v/v) 1,1,2-Trichloroethane ND 1.0 ppb(v/v) Tetrachloroethane ND 1.0 ppb(v/v) 1,2-Dibromoethane ND 1.0 ppb(v/v) 1,2-Dibromoethane ND 1.0 ppb(v/v) Ethylbenzene ND 1.0 ppb(v/v) m-Xylene & p-Xylene ND 1.0 ppb(v/v) o-Xylene ND 1.0 ppb(v/v)		ND		
cis-1,2-Dichloroethene ND 1.0 ppb(v/v) Chloroform ND 1.0 ppb(v/v) 1,1,1-Trichloroethane ND 1.0 ppb(v/v) Carbon tetrachloride ND 1.0 ppb(v/v) Benzene ND 1.0 ppb(v/v) 1,2-Dichloroethane ND 1.0 ppb(v/v) Trichloroethene ND 1.0 ppb(v/v) 1,2-Dichloropropane ND 1.0 ppb(v/v) Toluene ND 1.0 ppb(v/v) Toluene ND 1.0 ppb(v/v) trans-1,3-Dichloropropene ND 1.0 ppb(v/v) 1,1,2-Trichloroethane ND 1.0 ppb(v/v) Tetrachloroethane ND 1.0 ppb(v/v) 1,2-Dibromoethane (EDB) ND 1.0 ppb(v/v) 1,2-Dibromoethane (EDB) ND 1.0 ppb(v/v) Ethylbenzene ND 1.0 ppb(v/v) o-Xylene ND 1.0 ppb(v/v)	·	ND		
Chloroform ND 1.0 ppb (v/v) 1,1,1-Trichloroethane ND 1.0 ppb (v/v) Carbon tetrachloride ND 1.0 ppb (v/v) Benzene ND 1.0 ppb (v/v) 1,2-Dichloroethane ND 1.0 ppb (v/v) Trichloroethene ND 1.0 ppb (v/v) 1,2-Dichloropropane ND 1.0 ppb (v/v) Toluene ND 1.0 ppb (v/v) Toluene ND 1.0 ppb (v/v) trans-1,3-Dichloropropene ND 1.0 ppb (v/v) 1,1,2-Trichloroethane ND 1.0 ppb (v/v) Tetrachloroethane ND 1.0 ppb (v/v) 1,2-Dibromoethane (EDB) ND 1.0 ppb (v/v) 1,2-Dibromoethane (EDB) ND 1.0 ppb (v/v) Ethylbenzene ND 1.0 ppb (v/v) m-Xylene & p-Xylene ND 1.0 ppb (v/v) Styrene ND 1.0 ppb (v/v) <td>-</td> <td>ND</td> <td></td> <td></td>	-	ND		
1,1,1-Trichloroethane ND 1.0 ppb (v/v) Carbon tetrachloride ND 1.0 ppb (v/v) Benzene ND 1.0 ppb (v/v) 1,2-Dichloroethane ND 1.0 ppb (v/v) Trichloroethene ND 1.0 ppb (v/v) 1,2-Dichloropropane ND 1.0 ppb (v/v) Cis-1,3-Dichloropropene ND 1.0 ppb (v/v) Toluene ND 1.0 ppb (v/v) trans-1,3-Dichloropropene ND 1.0 ppb (v/v) 1,1,2-Trichloroethane ND 1.0 ppb (v/v) Tetrachloroethane ND 1.0 ppb (v/v) 1,2-Dibromoethane (EDB) ND 1.0 ppb (v/v) Chlorobenzene ND 1.0 ppb (v/v) Ethylbenzene ND 1.0 ppb (v/v) m-Xylene & p-Xylene ND 1.0 ppb (v/v) Styrene ND 1.0 ppb (v/v) 1,1,2,2-Tetrachloroethane ND 1.0 ppb (v/v) 1,3-Dichlorobenzene ND 1.0 pp	·	ND		
Carbon tetrachloride ND 1.0 ppb (v/v) Benzene ND 1.0 ppb (v/v) 1,2-Dichloroethane ND 1.0 ppb (v/v) Trichloroethene ND 1.0 ppb (v/v) 1,2-Dichloropropane ND 1.0 ppb (v/v) cis-1,3-Dichloropropene ND 1.0 ppb (v/v) Toluene ND 1.0 ppb (v/v) trans-1,3-Dichloropropene ND 1.0 ppb (v/v) trans-1,3-Dichloropropene ND 1.0 ppb (v/v) Tetrachloroethane ND 1.0 ppb (v/v) Tetrachloroethane ND 1.0 ppb (v/v) 1,2-Dibromoethane (EDB) ND 1.0 ppb (v/v) Ethylbenzene ND 1.0 ppb (v/v) m-Xylene & p-Xylene ND 1.0 ppb (v/v) o-Xylene ND 1.0 ppb (v/v) styrene ND 1.0 ppb (v/v) 1,2,2-Tetrachloroethane ND 1.0	1,1,1-Trichloroethane	ND		·
Benzene ND 1.0 ppb (v/v) 1,2-Dichloroethane ND 1.0 ppb (v/v) Trichloroethene ND 1.0 ppb (v/v) 1,2-Dichloropropane ND 1.0 ppb (v/v) cis-1,3-Dichloropropene ND 1.0 ppb (v/v) Toluene ND 1.0 ppb (v/v) trans-1,3-Dichloropropene ND 1.0 ppb (v/v) 1,1,2-Trichloroethane ND 1.0 ppb (v/v) Tetrachloroethene ND 1.0 ppb (v/v) 1,2-Dibromoethane (EDB) ND 1.0 ppb (v/v) Chlorobenzene ND 1.0 ppb (v/v) Ethylbenzene ND 1.0 ppb (v/v) m-Xylene & p-Xylene ND 1.0 ppb (v/v) o-Xylene ND 1.0 ppb (v/v) styrene ND 1.0 ppb (v/v) 1,2,2-Tetrachloroethane ND 1.0 ppb (v/v) 1,3-Dichlorobenzene ND 1.0 ppb (v/v	· ·	ND	1.0	
1,2-Dichloroethane ND 1.0 ppb(v/v) Trichloroethene ND 1.0 ppb(v/v) 1,2-Dichloropropane ND 1.0 ppb(v/v) cis-1,3-Dichloropropene ND 1.0 ppb(v/v) Toluene ND 1.0 ppb(v/v) trans-1,3-Dichloropropene ND 1.0 ppb(v/v) 1,1,2-Trichloroethane ND 1.0 ppb(v/v) Tetrachloroethane ND 1.0 ppb(v/v) 1,2-Dibromoethane (EDB) ND 1.0 ppb(v/v) Chlorobenzene ND 1.0 ppb(v/v) Ethylene ND 1.0 ppb(v/v) m-Xylene & p-Xylene ND 1.0 ppb(v/v) o-Xylene ND 1.0 ppb(v/v) Styrene ND 1.0 ppb(v/v) 1,2,2-Tetrachloroethane ND 1.0 ppb(v/v) 1,3-Dichlorobenzene ND 1.0 ppb(v/v) 1,3-Dichlorobenzene ND 1.0 ppb(v/v)		ND	1.0	
Trichloroethene ND 1.0 ppb (v/v) 1,2-Dichloropropane ND 1.0 ppb (v/v) cis-1,3-Dichloropropene ND 1.0 ppb (v/v) Toluene ND 1.0 ppb (v/v) trans-1,3-Dichloropropene ND 1.0 ppb (v/v) 1,2-Trichloroethane ND 1.0 ppb (v/v) Tetrachloroethane ND 1.0 ppb (v/v) 1,2-Dibromoethane (EDB) ND 1.0 ppb (v/v) Chlorobenzene ND 1.0 ppb (v/v) Ethylbenzene ND 1.0 ppb (v/v) m-Xylene & p-Xylene ND 1.0 ppb (v/v) o-Xylene ND 1.0 ppb (v/v) Styrene ND 1.0 ppb (v/v) 1,1,2,2-Tetrachloroethane ND 1.0 ppb (v/v) 1,3,5-Trimethylbenzene ND 1.0 ppb (v/v) 1,4-Dichlorobenzene ND 1.0 ppb (v/v)	1,2-Dichloroethane	ND	1.0	
1,2-Dichloropropane ND 1.0 ppb(v/v) cis-1,3-Dichloropropene ND 1.0 ppb(v/v) Toluene ND 1.0 ppb(v/v) trans-1,3-Dichloropropene ND 1.0 ppb(v/v) 1,2-Trichloroethane ND 1.0 ppb(v/v) Tetrachloroethane ND 1.0 ppb(v/v) 1,2-Dibromoethane (EDB) ND 1.0 ppb(v/v) Chlorobenzene ND 1.0 ppb(v/v) Ethylbenzene ND 1.0 ppb(v/v) m-Xylene & p-Xylene ND 1.0 ppb(v/v) o-Xylene ND 1.0 ppb(v/v) Styrene ND 1.0 ppb(v/v) 1,1,2,2-Tetrachloroethane ND 1.0 ppb(v/v) 1,3,5-Trimethylbenzene ND 1.0 ppb(v/v) 1,3-Dichlorobenzene ND 1.0 ppb(v/v)	•	ND	1.0	
Cis-1,3-Dichloropropene ND 1.0 ppb(v/v) Toluene ND 1.0 ppb(v/v) trans-1,3-Dichloropropene ND 1.0 ppb(v/v) 1,1,2-Trichloroethane ND 1.0 ppb(v/v) Tetrachloroethene ND 1.0 ppb(v/v) 1,2-Dibromoethane (EDB) ND 1.0 ppb(v/v) Chlorobenzene ND 1.0 ppb(v/v) Ethylbenzene ND 1.0 ppb(v/v) m-Xylene & p-Xylene ND 1.0 ppb(v/v) o-Xylene ND 1.0 ppb(v/v) Styrene ND 1.0 ppb(v/v) 1,1,2,2-Tetrachloroethane ND 1.0 ppb(v/v) 1,3-Dichlorobenzene ND 1.0 ppb(v/v) 1,4-Dichlorobenzene ND 1.0 ppb(v/v)	1,2-Dichloropropane	ND	1.0	
Toluene ND 1.0 ppb(v/v) trans-1,3-Dichloropropene ND 1.0 ppb(v/v) 1,1,2-Trichloroethane ND 1.0 ppb(v/v) Tetrachloroethene ND 1.0 ppb(v/v) 1,2-Dibromoethane (EDB) ND 1.0 ppb(v/v) Chlorobenzene ND 1.0 ppb(v/v) Ethylbenzene ND 1.0 ppb(v/v) m-Xylene & p-Xylene ND 1.0 ppb(v/v) o-Xylene ND 1.0 ppb(v/v) Styrene ND 1.0 ppb(v/v) 1,1,2,2-Tetrachloroethane ND 1.0 ppb(v/v) 1,3-Dichlorobenzene ND 1.0 ppb(v/v) 1,4-Dichlorobenzene ND 1.0 ppb(v/v)		ND	1.0	
trans-1,3-Dichloropropene ND 1.0 ppb (v/v) 1,1,2-Trichloroethane ND 1.0 ppb (v/v) Tetrachloroethene ND 1.0 ppb (v/v) 1,2-Dibromoethane (EDB) ND 1.0 ppb (v/v) Chlorobenzene ND 1.0 ppb (v/v) Ethylbenzene ND 1.0 ppb (v/v) m-Xylene & p-Xylene ND 1.0 ppb (v/v) o-Xylene ND 1.0 ppb (v/v) Styrene ND 1.0 ppb (v/v) 1,1,2,2-Tetrachloroethane ND 1.0 ppb (v/v) 1,3-Dichlorobenzene ND 1.0 ppb (v/v) 1,4-Dichlorobenzene ND 1.0 ppb (v/v)		ND	1.0	
1,1,2-Trichloroethane ND 1.0 ppb(v/v) Tetrachloroethene ND 1.0 ppb(v/v) 1,2-Dibromoethane (EDB) ND 1.0 ppb(v/v) Chlorobenzene ND 1.0 ppb(v/v) Ethylbenzene ND 1.0 ppb(v/v) m-Xylene & p-Xylene ND 1.0 ppb(v/v) o-Xylene ND 1.0 ppb(v/v) Styrene ND 1.0 ppb(v/v) 1,1,2,2-Tetrachloroethane ND 1.0 ppb(v/v) 1,3-Dichlorobenzene ND 1.0 ppb(v/v) 1,4-Dichlorobenzene ND 1.0 ppb(v/v)	trans-1,3-Dichloropropene	ND	1.0	
Tetrachloroethene ND 1.0 ppb (v/v) 1,2-Dibromoethane (EDB) ND 1.0 ppb (v/v) Chlorobenzene ND 1.0 ppb (v/v) Ethylbenzene ND 1.0 ppb (v/v) m-Xylene & p-Xylene ND 1.0 ppb (v/v) o-Xylene ND 1.0 ppb (v/v) Styrene ND 1.0 ppb (v/v) 1,1,2,2-Tetrachloroethane ND 1.0 ppb (v/v) 1,3-Dichlorobenzene ND 1.0 ppb (v/v) 1,4-Dichlorobenzene ND 1.0 ppb (v/v)	-	ND		
1,2-Dibromoethane (EDB)ND 1.0 $ppb (v/v)$ ChlorobenzeneND 1.0 $ppb (v/v)$ EthylbenzeneND 1.0 $ppb (v/v)$ m-Xylene & p-XyleneND 1.0 $ppb (v/v)$ o-XyleneND 1.0 $ppb (v/v)$ StyreneND 1.0 $ppb (v/v)$ $1,1,2,2$ -TetrachloroethaneND 1.0 $ppb (v/v)$ $1,3,5$ -TrimethylbenzeneND 1.0 $ppb (v/v)$ $1,3$ -DichlorobenzeneND 1.0 $ppb (v/v)$ $1,4$ -DichlorobenzeneND 1.0 $ppb (v/v)$		ND	1.0	
Chlorobenzene ND 1.0 ppb (v/v) Ethylbenzene ND 1.0 ppb (v/v) m-Xylene & p-Xylene ND 1.0 ppb (v/v) o-Xylene ND 1.0 ppb (v/v) Styrene ND 1.0 ppb (v/v) 1,1,2,2-Tetrachloroethane ND 1.0 ppb (v/v) 1,3,5-Trimethylbenzene ND 1.0 ppb (v/v) 1,3-Dichlorobenzene ND 1.0 ppb (v/v) 1,4-Dichlorobenzene ND 1.0 ppb (v/v)	1,2-Dibromoethane (EDB)	ND	1.0	
Ethylbenzene ND 1.0 ppb (v/v) m-Xylene & p-Xylene ND 1.0 ppb (v/v) o-Xylene ND 1.0 ppb (v/v) Styrene ND 1.0 ppb (v/v) Styrene ND 1.0 ppb (v/v) 1,1,2,2-Tetrachloroethane ND 1.0 ppb (v/v) 1,3,5-Trimethylbenzene ND 1.0 ppb (v/v) 1,3-Dichlorobenzene ND 1.0 ppb (v/v) 1,4-Dichlorobenzene ND 1.0 ppb (v/v)	Chlorobenzene	ND	1.0	
m-Xylene & p-Xylene ND 1.0 ppb (v/v) o-Xylene ND 1.0 ppb (v/v) Styrene ND 1.0 ppb (v/v) $1.1,2,2$ -Tetrachloroethane ND 1.0 ppb (v/v) $1,3,5$ -Trimethylbenzene ND 1.0 ppb (v/v) $1,3$ -Dichlorobenzene ND 1.0 ppb (v/v) $1,4$ -Dichlorobenzene ND 1.0 ppb (v/v)	Ethylbenzene	ND	1.0	
o-Xylene ND 1.0 ppb(v/v) Styrene ND 1.0 ppb(v/v) $1,1,2,2$ -Tetrachloroethane ND 1.0 ppb(v/v) $1,3,5$ -Trimethylbenzene ND 1.0 ppb(v/v) $1,3$ -Dichlorobenzene ND 1.0 ppb(v/v) $1,4$ -Dichlorobenzene ND 1.0 ppb(v/v)	-	ND	1.0	
StyreneND1.0 $ppb(v/v)$ 1,1,2,2-TetrachloroethaneND1.0 $ppb(v/v)$ 1,3,5-TrimethylbenzeneND1.0 $ppb(v/v)$ 1,3-DichlorobenzeneND1.0 $ppb(v/v)$ 1,4-DichlorobenzeneND1.0 $ppb(v/v)$		ND	1.0	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-	ND		
1,3,5-TrimethylbenzeneND1.0 $ppb(v/v)$ 1,3-DichlorobenzeneND1.0 $ppb(v/v)$ 1,4-DichlorobenzeneND1.0 $ppb(v/v)$	-			·
1,3-DichlorobenzeneND1.0 $ppb(v/v)$ 1,4-DichlorobenzeneND1.0 $ppb(v/v)$		ND		
1,4-Dichlorobenzene ND 1.0 $ppb(v/v)$		ND		
	The state of the s	ND		
		ND	1.0	ppb(v/v)

(Continued on next page)

Client Sample ID: CO131414

GC/MS Volatiles

Lot-Sample #...: H5L220269-002 Work Order #...: HTND31AA Matrix.....: AIR

1,2-Dichloroethane-d4	PERCENT	RECOVERY		
SURROGATE	RECOVERY	LIMITS		
1,2-Dichloroethane-d4	107	(70 - 130)		
Toluene-d8	107	(70 - 130)		
4-Bromofluorobenzene	105	(70 - 130)		

CO131414

GC/MS Volatiles

Lot-Sample #: H5L220269-002 Work Order #: HTND31AA Matrix: AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

				RETENTION	Ī
PARAMETER	CAS #	RESULT		TIME	UNITS
Difluorochloromethane	75-45-6	12 NJ	M	3.6045	ppb(v/v)
Methyl Alcohol	67-56-1	54 NJ	M	3.9712	ppb(v/v)
Butane	106-97-8	1.3 NJ	M	4.1114	ppb(v/v)
Ethyl alcohol	64-17-5	1.6 NJ	M	4.656	ppb(v/v)
Methyl Isobutyl Ketone	108-10-1	3.0 NJ	M	12.911	ppb(v/v)

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

GC/MS Volatiles

Client Lot #...: H5L220269 Work Order #...: HTPM91AA Matrix...... AIR

MB Lot-Sample #: H5L230000-047

Prep Date...: 12/22/05
Analysis Date..: 12/22/05
Prep Batch #...: 5357047

Dilution Factor: 1

		REPORTING	}	
PARAMETER	RESULT	LIMIT	UNITS	METHOD
Bromodichloromethane	ND	0.20	ppb(v/v)	EPA-19 TO-14
Bromoform	ND	0.20	ppb(v/v)	EPA-19 TO-14
Dibromochloromethane	ND	0.20	ppb(v/v)	EPA-19 TO-14
Dibromomethane	ND	0.40	ppb(v/v)	EPA-19 TO-14
trans-1,2-Dichloroethene	ND	0.20	ppb(v/v)	EPA-19 TO-14
Cumene	ND	0.40	ppb(v/v)	EPA-19 TO-14
n-Propylbenzene	ND	0.40	ppb(v/v)	EPA-19 TO-14
1,2,3-Trichloropropane	ND	0.50	ppb(v/v)	EPA-19 TO-14
Dichlorodifluoromethane	ND	0.20	ppb(v/v)	EPA-19 TO-14
Vinyl chloride	ND	0.20	ppb(v/v)	EPA-19 TO-14
Chloroethane	ND	0.20	ppb(v/v)	EPA-19 TO-14
Trichlorofluoromethane	ND	0.20	ppb(v/v)	EPA-19 TO-14
1,1-Dichloroethene	ND	0.20	ppb(v/v)	EPA-19 TO-14
1,1-Dichloroethane	ND	0.20	ppb(v/v)	EPA-19 TO-14
cis-1,2-Dichloroethene	ND	0.20	ppb(v/v)	EPA-19 TO-14
Chloroform	ND	0.20	ppb(v/v)	EPA-19 TO-14
1,1,1-Trichloroethane	ND	0.20	ppb(v/v)	EPA-19 TO-14
Carbon tetrachloride	ND	0.20	ppb(v/v)	EPA-19 TO-14
Benzene	ND	0.20	ppb(v/v)	EPA-19 TO-14
1,2-Dichloroethane	ND	0.20	ppb(v/v)	EPA-19 TO-14
Trichloroethene	ND	0.20	ppb(v/v)	EPA-19 TO-14
1,2-Dichloropropane	ND	0.20	ppb(v/v)	EPA-19 TO-14
cis-1,3-Dichloropropene	ND	0.20	ppb(v/v)	EPA-19 TO-14
Toluene	ND	0.20	ppb(v/v)	EPA-19 TO-14
trans-1,3-Dichloropropene	ND	0.20	ppb(v/v)	EPA-19 TO-14
1,1,2-Trichloroethane	ND	0.20	ppb(v/v)	EPA-19 TO-14
Tetrachloroethene	ND	0.20	ppb(v/v)	EPA-19 TO-14
1,2-Dibromoethane (EDB)	ND	0.20	ppb(v/v)	EPA-19 TO-14
Chlorobenzene	ND	0.20	ppb(v/v)	EPA-19 TO-14
Ethylbenzene	ND	0.20	ppb(v/v)	EPA-19 TO-14
m-Xylene & p-Xylene	ND	0.20	ppb(v/v)	EPA-19 TO-14
o-Xylene	ND	0.20	ppb(v/v)	EPA-19 TO-14
Styrene	ND	0.20	ppb(v/v)	EPA-19 TO-14
1,1,2,2-Tetrachloroethane	ND	0.20	ppb(v/v)	EPA-19 TO-14
1,3,5-Trimethylbenzene	ND	0.20	ppb(v/v)	EPA-19 TO-14
1,3-Dichlorobenzene	ND	0.20	ppb(v/v)	EPA-19 TO-14
1,4-Dichlorobenzene	ND	0.20	ppb(v/v)	EPA-19 TO-14
1,2-Dichlorobenzene	ИD	0.20	ppb (v/v)	EPA-19 TO-14

(Continued on next page)

GC/MS Volatiles

Client Lot #: H5L220269	Work Order #: HTPM91AA		Matrix AIR	
		REPORTING		
PARAMETER	RESULT	LIMIT UNITS	METHOD	
	PERCENT	RECOVERY		
SURROGATE	RECOVERY	LIMITS		
1,2-Dichloroethane-d4	106	(70 - 130)		
Toluene-d8	108	(70 - 130)		
4-Bromofluorobenzene	98	(70 - 130)		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Method Blank Report

GC/MS Volatiles

Lot-Sample #: H5L230000-047 B	Work Order #: HTPM91AA	Matrix: AIR
MASS SPECTROMETER/DATA SYSTEM	(MSDS) TENTATIVELY IDENTIFIED	COMPOUNDS
PARAMETER None	CAS # RESULT	RETENTION TIME UNITS ppb(v/v)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H5L220269 Work Order #...: HTPM91AC Matrix...... AIR

LCS Lot-Sample#: H5L230000-047

Prep Date....: 12/22/05 Analysis Date..: 12/22/05

Prep Batch #...: 5357047

Dilution Factor: 1

	PERCENT	RECOVERY	
PARAMETER	RECOVERY	LIMITS	METHOD
1,1-Dichloroethene	95	(70 - 130)	EPA-19 TO-14
Benzene	92	(70 - 130)	EPA-19 TO-14
Trichloroethene	90	(70 - 130)	BPA-19 TO-14
Toluene	100	(70 - 130)	EPA-19 TO-14
Chlorobenzene	98	(70 - 130)	EPA-19 TO-14
		PERCENT	RECOVERY
SURROGATE		RECOVERY	LIMITS
1,2-Dichloroethane-d4		101	(70 - 130)
Toluene-d8		102	(70 - 130)
4-Bromofluorobenzene		97	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H5L220269 Work Order #...: HTPM91AC Matrix...... AIR

LCS Lot-Sample#: H5L230000-047

Prep Date....: 12/22/05 **Analysis Date..:** 12/22/05

Prep Batch #...: 5357047

Dilution Factor: 1

NOTE(S):

PARAMETER 1,1-Dichloroethene Benzene Trichloroethene Toluene Chlorobenzene	SPIKE AMOUNT 10.0 10.0 10.0 10.0	MEASURED <u>AMOUNT</u> 9.46 9.16 8.96 9.98 9.79	UNITS ppb(v/v) ppb(v/v) ppb(v/v) ppb(v/v) ppb(v/v)	PERCENT RECOVERY 95 92 90 100 98	METHOD RPA-19 TO-14 RPA-19 TO-14 RPA-19 TO-14 RPA-19 TO-14 RPA-19 TO-14
SURROGATE 1,2-Dichloroethane-d4 Toluene-d8 4-Bromofluorobenzene		PERCENT RECOVERY 101 102 97	RECOVERY LIMITS (70 - 130) (70 - 130) (70 - 130)	-	

Calculations are performed before rounding to avoid round-off errors in calculated results Bold print denotes control parameters

456220269



CHAIN OF CUSTODY/ANALYSIS REQUEST FORM

Exygen Research Sample Receiving • 3048 Research Drive • State College, PA 16801, USA T: 814.231.8032 • F: 814.231.1580 • exygenresearch.com

Page	of	

PROJECT INFORMATION							AN	ALYS	ES RE	QUES	STED
Client (name & address):	Proj	ect i	Man Je	iager (Name PFF (); S	-6360						
	_	Project Name:									
Phone:											
rax:		PO.	#: +a+i	<u> </u>	<u>. 0414</u>		Š			1 1	
Sampler:						l l			ļ		
Please fill out this form <i>completely</i> to e	nsure cor	rect a	analy	ysis a	and proper h	andling of your samples.	Z		Ì		
							10/00/	1	1		
SAMPLE ANALYSIS			posite	aber of tainers	Specify Matrix						
ExyLIMS# Client Sample Identification Date	n Collection Time	Gra	Cou	Sen	Specify Matrix	Comments					
	1300				A76		X				
C013141A MPOPU	1300				Áì C	· · · · · · · · · · · · · · · · · · ·	- X	-			
	 									+	
										†	
1 2 2 2											
	 							-		+	
LAB USE ONLY	<u> </u>			l							I
CHAIN OF CUSTODY			C	ooler	· ID #	Cooler Temp. (°C)			T REO Deadli		MENTS
Relinquished by Date Tim	ne	Rec	eive	d by	2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Date Time					
Relinguished by Date Time	630	11/	au	X	P :	142405 1400					ptions:
		Received by Date Time Nation 1400 140						Sample results only Add case narrative			
			3.3	~ 11	The second second						summary
		LAB	JSE O	NLY					alibrati		
OTHER INFORMATION SONI PROSENT 1-Box-UPS EUSTODY SONI PROSENT NECHEMP Ambient traching 12465 750146	. 58 ₆₆₄ 2	- (1- U-F1	م ۶ کزرون					Add r	aw dat r	a	-

STL KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Project: Lot Number: H51220269 **Review Items** If No, what was the problem? Comments/Actions Taken 1. Do sample container labels match COC? □ 1a Do not match COC (IDs, Dates, Times) ☐ 1b Incomplete information ☐ 1c Marking smeared □ 1d Label torn □ 1e No label □ 1f COC not received □ 1g Other: Is the cooler temperature within limits? (> freezing ☐ 2a Temp Blank = temp. of water to 6 °C; NC, 1668, 1613B: 0-4°C; □ 2b Cooler Temp = VOST: 10°C; MA: 2-6°C) Were samples received with correct chemical ☐ 3a Sample preservative = preservative (excluding Encore)? Were custody seals present/intact on cooler and/or ☐ 4a Not present containers? ☐ 4b Not intact ☐ 4c Other: Were all of the samples listed on the COC received? ☐ 5a Samples received-not on COC ☐ 5b Samples not received-on COC Were all of the sample containers received intact? ☐ 6a Leaking ☐ 6b Broken Were VOA samples received without headspace? ☐ 7a Headspace (VOA only) Were samples received in appropriate containers? □ 8a Improper container Did you check for residual chlorine, if necessary? □ 9a Could not be determined due to matrix interference 10. Were samples received within holding time? ☐ 10a Holding time expired 11. For rad samples, was sample activity info. provided? ☐ Incomplete information If yes & appears to be >1%, was 12. For SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present? SOG notified? 13. Are the shipping containers intact? □ 13a Leaking ☐ 13b Other: 14. Was COC relinquished? (Signed/Dated/Timed) ☐ 14a Not relinquished by client 15. Are tests/parameters listed for each sample? ☐ 15a Incomplete information 16. Is the matrix of the samples noted? ☐ 15a Incomplete information 17. Is the date/time of sample collection noted? ☐ 15a Incomplete information 18. Is the client and project name/# identified? ☐ 15a Incomplete information 19. Was the sampler identified on the COC? Quote #: 5/366 PM Instructions:

Sample Receiving Associate: MATC Date: \2 (\v2\2)

QA026R17.doc, 10/3/05

Attachment F

Data Summary, Severn Trent Laboratories (Todd Giddings & Associates)

3049 Enterprise Drive

State College, PA 16801

Phone (814) 238-5927

December 27, 2005

Mr. Jeff Biss Exygen Research 3117 Research Dr. State College, PA 16801

ANALYTICAL LABORATORY REPORT

Sample Identification: L7057-3 (Outfall)

Date Collected: 12/20/05

Time Collected: 1300

Lab ID Number: 58987

Collected By: --

Analyte:	Result:	Analyzed by: Date/Time:
BOD (mg/l) SM 5210	< 2	DB 12/22/05 @ 1045

Submitted By:

Pahoratory Manage



STL Pittsburgh 301 Alpha Drive Pittsburgh, PA 15238

Tel: 412 963 7058 Fax: 412 963 2468 www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. EXYGEN RESEARCH

Exygen Research

Lot #: C5L220108

Jeff Biss

Exygen Research

SEVERN TRENT LABORATORIES, INC.

Christina M. Kovitch Project Manager

January 6, 2006

Severn Trent Laboratories, Inc. 27





NELAC REPORTING:

The format and content of the attached report meets NELAC standards and guidelines except as noted in the narrative. The table below presents a summary of the certifications held by STL Pittsburgh. Our primary accreditation authority for the Non-potable water and Solid & Hazardous waste programs is Pennsylvania DEP. A more detailed parameter list is available upon request. Please ask your project manager for this information when required.

State/Program NFESC		Program Types	STL Pittsburgh
	NA	NAVY	X
USACE	NA	Corps of Engineers	X
US Dept of Agriculture	(#S-46425)	Foreign Soil Import Permit	X
Arkansas	(#03-022-1)	ww	X
		HW	X
California – nelac	04224CA	ww	X
		HW	` X
Connecticut	(#PH-0688)	ww	X
		HW	<u>X</u>
Florida nelac	(#E87660)	ww	Х
		HW	X
Illinois – nelac	(#200005)	ww	X
	<u> </u>	HW	X
Kansas – nelac	(#E-10350)	ww	X
	(4100000)	HW	X
Louisiana – nelac	(#93200)	ww	X
Manual Language and a second	(#20202)	HW	X
New Hampshire – nelac	(#203002)	ww	Χ
New Jersey - nelac	(PA-005)	ww	X
	1	HW	X
New York - nelac	(#11182)	ww	X
	1	HW	X
North Carolina	(#434)	ww	X
		HW	X
North Dakota	R-075	ww	Χ
		HW	X
Ohio Vap	(#CL0063)	ww	X
		HW	X
Pennsylvania - nelac	(#02-00416)	l ww	Х
		HW	X
South Carolina	(#89014001)	ww	X
		HW	X
Utah – nelac	(STLP)	ww	X
	(/// ///	HW	X
West Virginia	(#142)	ww	X
147	000007000	HW	X
Wisconsın	998027800	WW HW	X X

The codes utilized for program types are described below:

HW Hazardous Waste certification

WW Non-potable Water and/or Wastewater certification

Laboratory has some form of certification under the specific program. Many states certify laboratories for specific parameters or tests within a category. The information in the table indicates the lab is certified in a general category of testing. Please contact the laboratory if parameter specific certification information is required.

CASE NARRATIVE EXYGEN RESEARCH

LOT # C5L220108

Sample Receiving:

STL Pittsburgh received samples on December 22, 2005. The cooler was received within the proper temperature range.

The sample ID's were taken from the sample bottles instead of the chain of custody as per instruction from the project manager.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

Metals:

The method blank had analytes detected at concentrations between the MDL and the reporting limit. The results were flagged with a "B" qualifier. Any sample associated with a method blank that had the same analyte detected had the result flagged with a "J" qualifier.

General Chemistry:

The STL North Canton, OH laboratory performed the n-hexane extractable material analysis. All results are included in the report.

The samples were received outside of the holding time for pH.

Sample L0007057-0003 was analyzed at a dilution for ammonia.

The MSD recovery was outside of the control limits for ammonia. All associated results were flagged with an "N" qualifier.

METHODS SUMMARY

C5L220108

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
pH (Electrometric)	MCAWW 150.1	MCAWW 150.1
Free Cyanide	SM18 4500-CN-I	SM18 4500-CN I
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A	SW846 7470A
N-Hexane Extractable Material (1664A)	CFR136A 1664A H	CFR136A 1664
Nitrogen, Ammonia	MCAWW 350.1	MCAWW 350.1
Total Organic Carbon	MCAWW 415.1	MCAWW 415.1
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3010A
References:		

CFR136A	"Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
MCAWW	"Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.
SM18	"Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992.
SW846	"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

C5L220108

WO # SAMPLE	CLIENT SAMPLE ID	SAMPLED SAMP DATE TIME
HTL5C 001	L0007057-0001	12/20/05 13:00
HTL5H 002	L0007057-0002	12/20/05 13:00
HTL5J 003	L0007057-0003	12/20/05 13:00

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results
- Results noted as "ND" were not detected at or above the stated limit
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight



CHAIN OF CUSTODY/ANALYSIS REQUEST FORM

Exygen Research Sample Receiving • 3048 Research Drive • State College, PA 16801, T: 814.231.8032 • F: 814.231.1580 • exygenresearch.com

		Pa	ge _		of	
AN	ALY	SES	REC	UE	STE	_
Hd	CN Ase	NH3	10c. 04/=	AgAI. HG. AS BP CACOCO	FO. N. P. S. TL. ZN	
1						
1						
l						Г
			1			
				1	1	

Project Name: Project Name	PROJECT INFORMATION									i.		AN	ALY	SES	REC	UES		2
Project Name: Phone: Fax: RO. #: 66 91 56 6 Quotation #: Please fill out this form completely to ensure correct analysis and proper handling of your samples. AMPLE ANALYSIS SyLIMS# Client Sample Identification Dalor Dalo				Project Manager (Name & E-mail Address):											ال			
Phone: Fax: Sampler: Please fill out this form completely to ensure correct analysis and proper handling of your samples. AMPLE ANALYSIS SylIMS# Client Sample Identification Date Time Cal 3 136 Declar 126 I Use (Cal 3 136 I Use (Cal 3 140) Declar 136 I Use (Cal 3 140) Dec	LABOV FULLY						<u> </u>	T1 1214)		· · · · · · · · · · · · · · · · · · ·	-	1	1			4	-	1
Phone: Fax: Sampler: Please fill out this form completely to ensure correct analysis and proper handling of your samples. AMPLE ANALYSIS SylIMS# Client Sample Identification Date Time Cal 3 136 Declar 126 I Use (Cal 3 136 I Use (Cal 3 140) Declar 136 I Use (Cal 3 140) Dec					Proi	ect	Nan	ne:			-					7	\	
Sampler: Quotation #:	Phone:												1			١٩	1	
Please fill out this form completely to ensure correct analysis and proper handling of your samples. AMPLE ANALYSIS	Fax:				P.O.	#:		66 91 J	B16							8	7	
Please fill out this form completely to ensure correct analysis and proper handling of your samples. AMPLE ANALYSIS	Sampler:			·	Quo	otati	on a	#:			_		١.		46	ן א	Ţ	1
AMPLE ANALYSIS Second Sec											ı		7	~	Ö	G-A	Ś	
AMPLE ANALYSIS Application Collection					Γ	٠	~ v]	•			14	5	KH	a C	H	9	
Co	SAMPLE ANALY:	SIS				posit	ber c								+	7	K	
Co	ExyLIMS# Client Sample Identificat		Date	Time	lag B	Con	Se	Specify Matrix	Comment	S						67	Fe	
Co131407 Display Display Date Time Cooler Temp. (°C) Date	共産業職 (~131362				ļ			WSTE		· · · · · · · · · · · · · · · · · · ·								
CO 3 40 13 60 14 15 15 15 15 15 15					<u> </u>			Wet/		·		1						_
Co13140 1300	C0131404				<u> </u>		1					1						
Co 131469 (A) dou Joc Lafter Co 121469 Laboratory Report Op Cooler Tome	CO131407				<u> </u>	ļ	Ш.	Mares					Ш					匚
COIDINGS Dolor D	Co131410				ļ		1											L_
COBY Date Time Cooler Temp. (°C) Coo					<u> </u>							<u> </u>			\perp			L_
THAIN OF CUSTODY Cooler ID # Cooler Temp. (°C) Results Deadline: Received by Date Time Date Time Date Time Date Time Date	CO131403				<u> </u>	ļ	1								\perp			
Cooler ID # Cooler Temp. (°C) Results Deadline: Cooler ID # Cooler Temp. (°C) Results Deadline:	CO131408		19/90/02	1300	<u></u>	<u> </u>		Water								Ш		<u> </u>
Cooler ID # Cooler Temp. (°C) Results Deadline: Cooler ID # Cooler Temp. (°C) Results Deadline: Received by		and the same	. 15. 0									PR	OJEC	T R	FOL	IIRE	MEN	(IT
Sample results only Add case narrative Add quality control su LAB USE ONLY	HAIN OF CUSI	OL	Y			C	ooler	· ID #	Coc	oler Temp. (°C)								
Sample results only Add case narrative Add quality control su LAB USE ONLY					Re	cejve	d by	\sim	D C	Date Tim	e	1_					_	
Sample results only Add case narrative Add quality control su LAB USE ONLY	now the	1441/0	, 16	14		/ -	<u>人</u>	- / -	1.	2.22-05 09	30	Lat	orat	ory I	Repo	ort O	ptio	ns:
						1					e de ser en Historia	_		•		-		
					- /		- 1 SE SE						Add	case	narra	tive		
LAB USE ONLY Add calibration sumn							 			- 1			Add	qualit	y co	ntrol s	umn	nary
THER INFORMATION Add raw data					LAB	USE O	NLY						Add	calib	ration	ı sum	man	y
	OTHER INFORMATION						_					1 —						
Other										,			Othe	er				

Client Sample ID: L0007057-0001

General Chemistry

Lot-Sample #...: C5L220108-001 Work Order #...: HTL5C Matrix.....: WATER

 PARAMETER
 RESULT
 RL
 UNITS
 METHOD
 ANALYSIS DATE
 BATCH #

 pH
 7.1
 - No Units
 MCAWW 150.1
 12/22/05
 5356354

Dilution Factor: 1 Analysis Time..: 14:06 MS Run #...... 5356215

Client Sample ID: L0007057-0002

General Chemistry

Lot-Sample #...: C5L220108-002 Work Order #...: HTL5H Matrix..... WATER

Date Sampled...: 12/20/05 Date Received..: 12/22/05

Client Sample ID: L0007057-0003

TOTAL Metals

Lot-Sample #...: C5L220108-003 Matrix....: WATER

Date Sampled...: 12/20/05 Date Received..: 12/22/05

Date Sampled	: 12/20/05	Date	RECEIVEG.	.: 12/22/	05		
PAR AMET ER	RESULT	REPORTING LIMIT	G UNITS	метно	n	PREPARATION- ANALYSIS DATE	WORK ORDER #
							<u> </u>
Prep Batch #	: 5363163						
Silver	0.00074 B,J	0.0050	mg/L	SW846	6010B	12/30-01/03/06	HTL5J1AG
		Dilution Fact	or: 1	Analysis	Time: 17:31	MS Run #	: 5363107
Aluminum	0.053 B,J	0.20	mg/L	SW846	6010B	12/30-01/03/06	HTL5J1AH
		Dilution Fact	or: 1	Analysis	Time: 17:31	MS Run #	: 5363107
Arsenic	0.0069 B	0.010	mq/L	SW846	6010B	12/30-01/03/06	HTL5J 1A J
		Dilution Fact	or 1	Analysis	Time : 17:33	MS Run #	
Beryllium	0.00047 B,J	D.0040	mq/L	CMBVE	6010B	12/30-01/03/06	אַג נד.כ.דיי
Deryrram	0.00047 B,U	Dilution Fact	2-		Time. : 17:31	MS Run #	
		22402011 1401	.01. 1	nadiyoto	11	1.0 1.0.1	. 3303107
Cadmium	ND	0.0050	mg/L	SW846	6010B	12/30-01/03/06	HTL5J1AL
		Dilution Fact	or: 1	Analysis	Time: 17:31	MS Run #	· 5363107
Chromium	ND	0.0050	mg/L	SW846	6010B	12/30-01/03/06	HTL5J1AM
		Dilution Fact	or: 1	Analysis	Time .: 17:31	MS Run #	: 5363107
Copper	ND	0.025	mg/L	SW846	6010B	12/30-01/03/06	HTL5J1AN
**		Dilution Fact	•	Analysis	Time: 17:31	MS Run #	
Iron	0.20	0.10	mq/L	SW846	6010B	12/30-01/03/06	HTL5J1AP
		Dilution Fact	٥.	Analysis	Time: 17:31	MS Run #	
Nickel	0.0083 B,J	0.040	mg/L	SW846	6010B	12/30-01/03/06	HTT.5J1AO
		Dilution Fact	_		Time: 17:31	MS Run #	-
Lead	ND	0.0030	mg/L	SW846	6010B	12/30-01/03/06	
		Dilution Fact	or: 1	Analysis	Time: 17:31	MS Run #	: 5363107
Antimony	0.0052 B	0.010	mg/L	SW846	6010B	12/30-01/03/06	HTL5J1AT
		Dilution Fact	or: 1	Analysis	Time: 17:31	MS Run #	: 5363107
Thallium	ND	0.010	mg/L	SW846	6010B	12/30-01/03/06	HTL5J1AU
		Dilution Fact	or: 1	Analysis	Time: 17:31	MS Run #	

(Continued on next page)

Client Sample ID: L0007057-0003

TOTAL Metals

Lot-Sample #	: C5L22010	9-003				Matrix	.: WATER
PARAMETER	RESULT	REPORTII	NG UNITS	METHOI		PREPARATION- ANALYSIS DATE	WORK ORDER #
Zinc	0.020 J	0.020	mq/L	SW846		12/30-01/03/06	
ZIIIC		lution Factor: 1		Time: 17:31			
Prep Batch #	: 6003036						
Mercury	ND	0.20	ug/L	SW846	7470A	01/03/06	HTL5J1AA
		Dilution Fac	ctor: 1	Analysis	Time: 11:01	MS Run #	: 6003024
NOTE(S):							

B Fsumated result. Result is less than RL

J Method blank contamination. The associated method blank contains the target analyte at a reportable level

Client Sample ID: L0007057-0003

General Chemistry

Lot-Sample #...: C5L220108-003 Work Order #...: HTL5J Matrix..... WATER

Date Sampled...: 12/20/05 Date Received..: 12/22/05

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
n-Hexane Extractable Material	ND	5.0	mg/L	CFR136A 1664A HEM	12/30/05	5364273
		Dilution Fact	or: 1	Analysis Time: 00.00	MS Run #	•
рН	8.4		No Units	MCAWW 150.1	12/22/05	5356354
		Dilution Fact	or: 1	Analysis Time: 14:10	MS Run #	. 5356215
Ammonia Nitrogen	7.1	0.50	mg/L	MCAWW 350.1	12/23/05	5357026
		Dilution Fact	or. 5	Analysis Time. 11.17	MS Run #	. 5357021
Cyanide (Free)	ND	0.010	mg/L	SM18 4500-CN-I	12/29-12/30/05	5363322
		Dilution Facto	or. 1	Analysis Time: 11:42	MS Run #	: 5363239
Total Organic Carbon (TOC)	ND	1.0	mg/L	MCAWW 415.1	12/22/05	5357233
		Dilution Fact	or: 1	Analysis Time: 19:43	MS Run #	: 5357165

TOTAL Metals

Client Lot #: C5L220108	Matrix WATER
Cricare Doc Will Comment	

		REPORTING				PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHO	D	ANALYSIS DATE	ORDER #
MB Lot-Sample #							
Aluminum	0.020 B	0.20	mg/L	SW846	6010B	12/30-01/03/06	HTXDKLAC
		Dilution Facto					
		Analysis Time.	.: 17:09				
Antimony	ND	0.010	mg/L	SW846	6010B	12/30-01/03/06	HTXDKlAM
-		Dilution Facto	r: 1				
		Analysis Time.	.: 17:09				
Arsenic	ND	0.010	mg/L	CMOAE	6010B	12/30-01/03/06	רוא נשחעיים
AISCILC	1413	Dilution Facto	-	24040	00101	12/30 01/03/00	MINDRIAD
_	. •	Analysis Time.					
		Additional Time.	105				
Beryllium	0.00058 B	0.0040	mg/L	SW846	6010B	12/30-01/03/06	HTXDKLAB
		Dilution Facto	r: 1				
		Analysis Time.	.: 17:09				
Cadmium	ND	0.0050	mg/L	SW846	6010B	12/30-01/03/06	HTXDK1AF
		Dilution Facto	r: 1				
		Analysis Time.	.: 17:09				
Chromium	ND	0.0050	mg/L	SW846	6010B	12/30-01/03/06	HTXDK1AG
		Dilution Facto					
		Analysis Time.	.: 17:09				
Copper	ND	0.025	mg/L	SW846	6010B	12/30-01/03/06	HTXDKLAH
		Dilution Factor	r: 1				
		Analysis Time.	.: 17:09				
Iron	ND	0.10	mg/L	SW846	6010B	12/30-01/03/06	HTXDKIAJ
		Dilution Factor	•			,,	
		Analysis Time.	.: 17:09				
Lead	ND	0.0030	mg/L	SW846	6010B	12/30-01/03/06	HTXDK1AL
		Dilution Factor					
		Analysis Time.	.: 17:09				
Nickel	0.0014 B	0.040	mg/L	SW846	6010B	12/30-01/03/06	HTXDKlak
		Dilution Factor	r: 1				
		Analysıs Time.	.: 17:09				
Gil	0.00050.5	0.0050	/t	CWC 4 C	6010B	12/20 01/02/05	IPPVINES A P
Silver	0.00050 B	0.0050	mg/L	SW846	PULUB	12/30-01/03/06	LIVINTAR
		Dilution Facto					
		Analysis Time.	11:05				

(Continued on next page)

TOTAL Metals

Client Lot #...: C5L220108

Matrix..... WATER

		REPORTIN	1G			PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHO	D	ANALYSIS DATE	ORDER #
Thallium	ND	0.010	mg/L	SW846	6010B	12/30-01/03/06	HTXDK1AN
		Dilution Fac	tor: 1				
		Analysis Tim	ne: 17:09				
Zinc	0.0040 B	0.020	mg/L	SW846	6010B	12/30-01/03/06	HTXDKLAP
		Dilution Fac	tor: 1				
		Analysis Tim	ne 17:09				
MB Lot-Sample : Mercury	#: C6A030000 ND	-036 Prep F 0.20 Dilution Fac Analysis Tim	ug/L tor 1		7470A	01/03/06	HT2KW1AA
NOTE(S):							

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result Result is less than RL.

General Chemistry

Client Lot #...: C5L220108

Matrix....: WATER

		REPORTING	3		PREPARATION-	PREP
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	BATCH #
n-Hexane Extractal	ble	Work Order	#: HT1E91AA	MB Lot-Sample #:	A5L300000-273	
Material						
	ND	5.0	mg/L	CFR136A 1664A HEM	12/30/05	5364273
		Dilution Fact	or: 1			
		Analysis Time	00:00			
Ammonia Nitrogen		Work Order	#: HTPMW1AA	MB Lot-Sample #:	C5L230000-026	
	ND	0.10	mg/L	MCAWW 350.1	12/23/05	5357026
		Dilution Fact	or: 1			
		Analysis Time	11:15			
Cyanide (Free)		Work Order	#: HTX4E1AA	MB Lot-Sample #:	C5L290000-322	
	ND	0.010	mg/L	SM18 4500-CN-I	12/29-12/30/05	5363322
		Dilution Fact	or: 1			
		Analysis Time	11:39			
Total Organic Carl (TOC)	oon	Work Order	#: HTQAX1AA	MB Lot-Sample #:	C5L230000-233	
	ND	1.0	mg/L	MCAWW 415.1	12/22/05	5357233
		Dilution Fact	or: 1			
		Analysis Time	: 15:52			
NOTE(S):						

Calculations are performed before rounding to avoid round-off errors in calculated results.





RUTGERS ORGANICS CORPORATION/EHS DEPT 201 STRUBLE ROAD STATE COLLEGE, PA 16801

Date Reported 3-Feb-00

Date Received

Invoice Number

ACCOUNT 155

21-Dec-05

35814

Contact RAINER DOMALSKI

Date Collected 20-Dec-05

Client ID INFLUENT 12-20-05

Lab ID L7057-1

			LIMIT			
PARAMETER	UNITS	RESULT	OF QUANTITATION	TEST METHOD	TEST DATE	ANALYST
PESTICIDE ANALYSIS						
KEPONE	ug/L	U 0 042	0 042	SOP 6.2	1-Feb-06	CS
PHOTOMIREX	ug/L	Մ 0 006	0 006	SOP 6 2	1-Feb-06	CS
MIREX	ug/L	U 0 002	0 002	SOP 6 2	1-Feb-06	CS
		1				
		1				

Please see text report for additional comments related to this sample





RUTGERS ORGANICS CORPORATION/EHS DEPT

201 STRUBLE ROAD

STATE COLLEGE, PA 16801

ACCOUNT 155

Contact RAINER DOMALSKI

Date Received

21-Dec-05 3-Feb-00

Date Reported Invoice Number

35814

Date Collected 20-Dec-05

Client ID LGAC 2-3-12-20-05

Lab ID

L7057-2

			LIMIT			
			OF			
PARAMETER	UNITS	RESULT	QUANTITATION	TEST METHOD	TEST DATE	ANALYST
PESTICIDE ANALYSIS						
KEPONE	ug/L	U 0 042	0 042	SOP 6 2	1-Feb-06	CS
PHOTOMIREX	ug/L	U 0 006	0 006	SOP 6 2	1-Feb-06	CS
MIREX	ug/L	U 0 002	0 002	SOP 6 2	1-Feb-06	CS
VOLATILE ANALYSIS						
VINYL CHLORIDE	ug/L	< 10	10	EPA 8260	28-Jan-06	ΥL
DICHLOROMETHANE	ug/L	< 5	5	EPA 8260	28-Jan-06	$_{ m YL}$
1,1-DICHLOROETHENE	ug/L	< 5	5	EPA 8260	28-Jan-06	YL
CIS-1,2-DICHLOROETHENE	ug/L	< 5	5	EPA 8260	28-Jan-06	YL
TRANS-1,2-DICHLOROETHENE	ug/L	< 5	5	EPA 8260	28-Jan-06	$_{ m YL}$
CHLOROFORM	ug/L	< 5	5	EPA 8260	28-Jan-06	YL
1,2-DICHLOROETHANE	ug/L	< 5	5	EPA 8260	28-Jan-06	YL
1,1,1-TRICHLOROETHANE	ug/L	< 5	5	EPA 8260	28-Jan-06	YL
1,1,2,2-TETRACHLOROETHANE	ug/L	< 5	5	EPA 8260	28-Jan-06	YL
1,2-DICHLOROPROPANE	ug/L	< 5	5	EPA 8260	28-Jan-06	YL
TRICHLOROETHENE	ug/L	< 5	5	EPA 8260	28-Jan-06	YL
BENZENE	ug/L	< 5	5	EPA 8260	28-Jan-06	ΥL
TETRACHLOROETHENE	ug/L	< 5	5	EPA 8260	28-Jan-06	YL
TOLENE	ug/L	< 5	5	EPA 8260	28-Jan-06	YL
CHLOROBENZENE	ug/L	< 5	5	EPA 8260	28-Jan-06	YL
ETHYLBENZENE	ug/L	< 5	5	EPA 8260	28-Jan-06	YL
M, P-XYLENE	ug/L	< 5	5	EPA 8260	28-Jan-06	YL
O-XYLENE	ug/L	< 5	5	EPA 8260	28-Jan-06	YL
ACETONE	ug/L	< 10	10	EPA 8260	28-Jan-06	YL
2-BUTANONE	ug/L	< 10	10	EPA 8260	28-Jan-06	YL
CHLOROMETHANE	ug/L	< 10	10	EPA 8260	28-Jan-06	YL
CIS-1,3-DICHLOROPROPENE	ug/L	< 5	5	EPA 8260	28-Jan-06	YL
TRANS-1,3-DICHLOROPROPENE	ug/L	< 5	5	EPA 8260	28-Jan-06	YL



RUTGERS ORGANICS CORPORATION/EHS DEPT

201 STRUBLE ROAD

STATE COLLEGE, PA 16801

ACCOUNT 155

Contact RAINER DOMALSKI

Date Received

21-Dec-05

Date Reported 3-Feb-00

Invoice Number

35814

Date Collected 20-Dec-05

Client ID LGAC 2-3-12-20-05

Lab ID

L7057-2

			LIMIT OF			
PARAMÉTER	UNITS	RESULT	QUANTITATION	TEST METHOD	TEST DATE	ANALYST
BROMOFORM	ug/L	< 5	5	EPA 8260	28-Jan-06	YL
IBROMOCHLOROMEHTANE	ug/L	< 5	5	EPA 8260	28-Jan-06	YL
ROMODICHLOROMETHANE	ug/L	< 5	5	EPA 8260	28-Jan-06	YL
ARBON TETRACHLORIDE	ug/L	< 5	5	EPA 8260	28-Jan-06	YL
BROMOMETHANE	ug/L	< 10	10	EPA 8260	28-Jan-06	YL

Please see text report for additional comments related to this sample



Report

RUTGERS ORGANICS CORPORATION/EHS DEPT

201 STRUBLE ROAD

STATE COLLEGE, PA 16801

ACCOUNT 155

Contact RAINER DOMALSKI

Date Received 21-Dec-05 Date Reported 3-Feb-00

Invoice Number 35814

Date Collected 20-Dec-05

Client ID OUTFALL 12-20-05

Lab ID L7057-3

			LIMIT			
			OF			
PARAMETER	UNITS	RESULT	NOITATITHAUO	TEST METHOD	TEST DATE	ANALYST
ARAPIETER	UNIIS	RESULI	QUANTITATION	TEST METROD	TEST DATE	ANALISI
PESTICIDE ANALYSIS						
KEPONE	ug/L	U 0 042	0 042	SOP 6 2	1-Feb-06	CS
PHOTOMIREX	ug/L	U 0 006	0 006	SOP 6 2	1-Feb-06	cs
MIREX	ug/L	U 0 002	0 002	SOP 6 2	1-Feb-06	CS
METHOXYCHLOR	ug/L	< 0 1	0 1	EPA 8081A	1-Feb-06	KAB
SEMI-VOLATILE ANALYSIS						
ANTHRACENE	ug/L	< 10	10	EPA 8270C	1-Feb-06	CP
BENZO (A) ANTHRACENE	ug/L	< 10	10	EPA 8270C	1-Feb-06	CP
BENZO (K) FLUORANTHENE	ug/L	< 10	10	EPA 8270C	1-Feb-06	CP
3.4-BENZOFLUORANTHENE	ug/L	< 10	10	EPA 8270C	1-Feb-06	CP
BENZO (B) FLUORANTHENE	ug/L	< 10	10	EPA 8270C	1-Feb-06	CP
BENZO(G, H, I) PERYLENE	ug/L	< 10	10	EPA 8270C	1-Feb-06	CP
ENZO (A) PYRENE	ug/L	< 10	10	EPA 8270C	1-Feb-06	CP
HRYSENE	ug/L	< 10	10	EPA 8270C	1-Feb-06	CP
IBENZ (A, H) ANTHRACENE	ug/L	< 10	10	EPA 8270C	1-Feb-06	CP
LUORENE	ug/L	< 10	10	EPA 8270C	1-Feb-06	CP
NDENO(1,2,3-CD)PYRENE	uq/L	< 10	10	EPA 8270C	1-Feb-06	CP
APHTHALENE	ug/L	< 10	10	EPA 8270C	1-Feb-06	CP
HENANTHRENE	ug/L	< 10	10	EPA 8270C	1-Feb-06	CP
YRENE	ug/L	< 10	10	EPA 8270C	1-Feb-06	CP
HENOL	ug/L	< 10	10	EPA 8270C	1-Feb-06	CP
-METHYLPHENOL	uq/L	< 10	10	EPA 8270C	1-Feb-06	CP
, 3-DICHLOROBENZENE	ug/L	< 10	10	EPA 8270C	1-Feb-06	CP
.,4-DICHLOROBENZENE	ug/L	< 10	10	EPA 8270C	1-Feb-06	CP
.2-DICHLOROBENZENE	ug/L	< 10	10	EPA 8270C	1-Feb-06	CP
IMETHYL PHTHALATE	ug/L	< 10	10	EPA 8270C	1-Feb-06	CP
BUTYLBENZYL PHTHALATE	ug/L	< 10	10	EPA 8270C	1 - Feb - 06	CP
I-N-BUTYL PHTHALATE	ug/L	< 10	10	EPA 8270C	1-Feb-06	CP
-METHYLNAPHTHALENE	ug/L	< 10	10	EPA 8270C	1-Feb-06	CP
, 4 - DI CHLORONI TROBENZENE	ug/L	< 10	10	EPA 8270C	1-Feb-06	CP
PIPHENYL SULFONE	ug/L	< 10	10	EPA 8270C	1-Feb-06	CP
	-					
OLATILE ANALYSIS						
INYL CHLORIDE	ug/L	< 10	10	EPA 8260	27-Jan-06	YĻ
OI CHLOROMETHANE	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
,1-DICHLOROETHENE	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
CIS-1,2-DICHLOROETHENE	ug/L	< 5	5	EPA 8260	27-Jan-06	YL





RUTGERS ORGANICS CORPORATION/EHS DEPT

201 STRUBLE ROAD

STATE COLLEGE, PA 16801

ACCOUNT 155

Contact RAINER DOMALSKI

Date Received 21-Dec-05 Date Reported 3-Feb-00

Invoice Number 35814

Date Collected 20-Dec-05

Client ID OUTFALL 12-20-05

Lab ID L7057-3

			LIMIT			
			OF			
PARAMETER	UNITS	RESULT	QUANTITATION	TEST METHOD	TEST DATE	ANALYST
TRANS-1,2-DICHLOROETHENE	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
CHLOROFORM	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
1,2-DICHLOROETHANE	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
l,1,1-TRICHLOROETHANE	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
1,1,2,2-TETRACHLOROETHANE	ug/L	< 5	5	EPA 8260	27-Jan-06	ΥL
L,2-DICHLOROPROPANE	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
TRICHLOROETHENE	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
BENZENE	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
retrachloroethene	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
COLENE	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
CHLOROBENZENE	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
ETHYLBENZENE	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
1, P-XYLENE	ug/L	< 5	5	EPA 8260	27-Jan-06	$_{ m YL}$
)-XYLENE	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
CETONE	ug/L	< 10	10	EPA 8260	27-Jan-06	$_{ m YL}$
-BUTANONE	ug/L	< 10	10	EPA 8260	27-Jan-06	YL
CHLOROMETHANE	ug/L	< 10	10	EPA 8260	27-Jan-06	YL
CIS-1,3-DICHLOROPROPENE	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
RANS-1,3-DICHLOROPROPENE	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
BROMOFORM	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
DIBROMOCHLOROMEHTANE	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
BROMODICHLOROMETHANE	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
CARBON TETRACHLORIDE	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
BROMOMETHANE	ug/L	< 10	10	EPA 8260	27-Jan-06	YL

Please see text report for additional comments related to this sample





RUTGERS ORGANICS CORPORATION/EHS DEPT 201 STRUBLE ROAD

STATE COLLEGE, PA 16801

ACCOUNT 155

Contact RAINER DOMALSKI

Date Received Date Reported 3-Feb-00

21-Dec-05

Invoice Number

35814

Date Collected 20-Dec-05

Client ID TRIP BLANK

Lab ID L7057-4

			LIMIT			
			OF			
PARAMÉTER	UNITS	RESULT	QUANTITATION	TEST METHOD	TEST DATE	ANALYST
VOLATILE ANALYSIS						
VINYL CHLORIDE	ug/L	< 10	10	EPA 8260	27-Jan-06	YL
DICHLOROMETHANE	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
1,1-DICHLOROETHENE	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
CIS-1,2-DICHLOROETHENE	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
FRANS-1,2-DICHLOROETHENE	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
CHLOROFORM	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
1,2-D1CHLOROETHANE	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
,1,1-TRICHLOROETHANE	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
,1,2,2-TETRACHLOROETHANE	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
, 2-DICHLOROPROPANE	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
TRICHLOROETHENE	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
BENZENE	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
ETRACHLOROETHENE	ug/L	< 5	5	EPA 8260	27-Jan-06	ΥL
OLENE	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
THLOROBENZENE	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
THYLBENZENE	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
, P-XYLENE	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
-XYLENE	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
CETONE	ug/L	< 10	10	EPA 8260	27-Jan-06	YL
-BUTANONE	ug/L	< 10	10	EPA 8260	27-Jan-06	$_{ m YL}$
THLOROMETHANE	ug/L	< 10	10	EPA 8260	27-Jan-06	YL
IS-1,3-DICHLOROPROPENE	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
RANS-1,3-DICHLOROPROPENE	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
ROMOFORM	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
IBROMOCHLOROMEHTANE	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
ROMODICHLOROMETHANE	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
CARBON TETRACHLORIDE	ug/L	< 5	5	EPA 8260	27-Jan-06	YL
BROMOMETHANE	ug/L	< 10	10	EPA 8260	27-Jan-06	YL

Please see text report for additional comments related to this sample





CHAIN OF CUSTODY/ANALYSIS REQUEST FORM

Exygen Research Sample Receiving • 3048 Research Drive • State College, PA 16801, USA T: 814.231.8032 • F: 814.231.1580 • exygenresearch.com

Page / of 2

PROJECT INFORMATION											ΔN	ALY	CEC	DEG	ILIES	TED	
Client (name & address):	<i></i>						nager (Name TINER DOM				AIN	ALI	SES	1			
1224 BENTON ROAD SALEM OHIO 44460 Phone: (330) 332-4834 Fax:	1	- 5	_ _ _	Proj	ect #·	Nan Sal	ne: EM, OHTO.	Site							_		
Sampler: DENNY LANE			Project Name: Salem, Ohio Site P.O. #: Quotation #:												5		ļ
Please fill out this form	completely	to en	sure corr	rect	anal	ysis	and proper h	andling	of your sa	mples.				s TDS	0,00		SIOES
SAMPLE ANALY				q	Composite	mber of	Specify Matrix				NH3	Voc	Ban	pH, Tss	CoD Te	SVOC	PESTICIDES
ExyLIMS# Client Sample Identific	ation	llection Date	Collection Time	Ū	ο̈̈̈	ŽΟ̈́	Specify Matrix	Comm	ents					1-1-			
17057-1 INFLUENT 12-2		-20-05	1300	X		2	WATER							2			
LX57-2 LGAC 2-3-12-20			1300	X		6	WATER				ļ.,	4		2			
17057-3 OUTFALL 12-20	-05 12	-20-05	1300	X		12	WATER					4		2	2		
LAB USE ONLY			l			<u> </u>	1			 		1			ı		
CHAIN OF CUS	TOD	ľ					Cardbosed r ID # <u>Client</u>	Bax	Cooler Tem	23./ p. (°C) √.3	_	OJE(sults				MEN	ITS
Relinquished by	Date	Time		Re	ceive	d by	1/1		Date	Time	_						_
D.L.L.	12-20-05	15	00	<u> </u>	Sect	MA	<i>//</i>		1991/04	1940		orat				ptio	ns:
`									 	ļ	_] Sam] Add	•		•		ł
										+ -	-	Add Add				umm	an,
	<u> </u>	<u> </u>		LAB	USE O	NLY			<u> </u>		-	Add	•	-			- 1
OTHER INFORMATION												Add			, Juii	····u·· y	'
												Othe					
																	- 1



CHAIN OF CUSTODY/ANALYSIS REQUEST FORM

Exygen Research Sample Receiving • 3048 Research Drive • State College, PA 16801, USA T: 814.231.8032 • F: 814.231.1580 • exygenresearch.com

Page 2 of 2

RUTGERS ORGANICS CORP. 1224 BENTAN KAND SALEM OHIO 44460 Project Name: SALEM OHIO 44460 Project Name: SALEM OHIO SITE PO. #: Sampler: Denny Lane Quotation #: Please fill out this form completely to ensure correct analysis and proper handling of your samples. Po. #: Po. #: Quotation #: Please fill out this form completely to ensure correct analysis and proper handling of your samples. Po. #: Sample Identification Collection Date Date	PROJECT INFORMATION							, ,				AN	ALY:	SES I	REQ	UES	TED
SALEM ON:0 44460 Project Name: SALEM, OH:0 SITE Phone: (330) 332-4834 Fax: Sampler: DENNY LANE Quotation #: Please fill out this form completely to ensure correct analysis and proper handling of your samples. SALEM, OH:0 SITE PO. #: Quotation #: Please fill out this form completely to ensure correct analysis and proper handling of your samples. SAMPLE ANALYSIS ExyLIMS# Client Sample Identification Date Time Date Time Date Time D.L.L. PROJECT REQUIREMENTS Received by Date Time Laboratory Report Options: SALEM, OH:0 SITE PO. #: SALEM, OH:0 SITE PO. #: SALEM, OH:0 SITE PO. #: SALEM, OH:0 SITE SALEM, OH:0 SITE PO. #: SALEM, OH:0 SITE SALEM, OH:0 SITE PO. #: SALEM, OH	Client (name & address): RUTGEES ORGANICS (ORP.		_	Proj —	ect De	Mar 2. K	nager (Name RINER Do	e & E-ma	ail Addre	ss):		:	1			
Fax: Sampler: Denny Ane Quotation #: Please fill out this form completely to ensure correct analysis and proper handling of your samples. SAMPLE ANALYSIS ExyLIMS# Client Sample Identification Date Time S S Z S Specify Matrix Comments AS 7 - I The Luent 12-20-05 12-20-0	SALEM OHIO 4446 Phone: (32) 332-4834	0		-	Project Name:												
Please fill out this form completely to ensure correct analysis and proper handling of your samples. SAMPLE ANALYSIS ExyLIMS# Client Sample Identification Date Superify Matrix Comments (2) Descript Matrix Comments (2) Descript Matrix Comments (3) Descript Matrix Comments (4) Descript Matrix Comments (5) Descript Matrix Comments (6) Descript Matrix Comments (7) Descript Matrix Comments (8) Descript Matrix Comments (9) Descript Matrix Comments (9) Descript Matrix Comments (1) Descript Matrix Comments (2) Descript Matrix Comments (2) Descript Matrix Comments (2) Descript Matrix Comments (2) Descript Matrix Comments (3) Descript Matrix Comments (4) Descript Matrix Comments (5) Descript Matrix Comments (6) Descript Matrix Comments (6) Descript Matrix Comments (7) Descript Matrix Comments (8) Descript Matrix Comments (8) Descript Matrix Comments (9) Descript Matrix Comments (1) Descript Matrix Comments (2) Descript Matrix Comments (3) Descript Matrix Comments (4) Descript Matrix Comments (5) Descript Matrix Comments (6) Descript Matrix Comments (6) Descript Matrix Comments (7) Descript Matrix Comments (8) Descript Matrix Comments (9) Descript Matrix Comments	Fax:		• • • • • • • • • • • • • • • • • • • •	_	P.O.	#:	2/64	EN, OHIO C	2118			0		S	ľ		
EXPLIMS# Client Sample Identification Collection Col	Sampler: DENNY LANE			_	Quo	otati	ion 7	#:				13		77	İ		
EXYLIMS# Client Sample Identification Collection Coll	Please fill out this form a	completely	to en	sure corr	ect	anal	ysis	and proper h	andling o	of your sa	mples.	m	·				
Collection Col	SAMPLE ANALY	'SIS				posite	nber of tainers					YRNID	MPK	[RON +	VAPOR	1/00 8	
7057-1 INFLUENT 12-20-05 1220-05 1300 X 2 WATER 2	ExyLIMS# Client Sample Identific	ation			Graf	Con	Con	Specify Matrix	Comme	nts		7					
1 2 2 2 2 2 2 2 2 2	17057-1 INFLUENT 12-	20-05 12	?-20-05	1300	X			WATER									
17057 - Y 1710 1844												<u> </u>				\longrightarrow	
1257 - \$ AGAC -2 - 2 - 20 - 05 2 - 20 - 05 30 e X AiR AiR AGAC F - 2 - 20 - 05 2 - 20 - 05 30 e X AiR Ai	-	-05 12										+L	2	2	\dashv	_ _+	
AB USE ONLY Cooler ID # Cleant Cooler Temp. (°C) Cooler Temp. (-	10						-	\vdash		4	
AB USE ONLY Cooler ID # Cirent Cooler Temp. (°C)							++	HIR				1	\vdash	$\vdash \vdash \vdash$	++		
Cooler ID # Cient Cooler Temp. (°C) 1. Results Deadline: Received by Date Time Date Time Date Time Date Time Date LAS / 2 RGRC P - 12-20-	05 12	-24-05	1300	X.		╀	ALIK				 		\vdash	+	\dashv	+	
Cooler ID # Cient Cooler Temp. (°C) 1.3 Relinquished by Date Time D.L.L. 12-20-05 1500 Cooler ID # Cient Cooler Temp. (°C) 1.3 Cooler Temp. (°C							<u> </u>	-							\dashv	\dashv	
Cooler ID # CI:ent Cooler Temp. (°C) 1. 3 Results Deadline: Results Deadline: Date Time D.L.L. 12-20-05 1500 Sample results only	LAB USE ONLY																·
D.L.L. 12-20-05 1500 Laboratory Report Options: Sample results only	CHAIN OF CUS	TOD'	Y			c	oolei	Ctalbood r ID # <u>C I. Ten :</u>	Box t c	ooler Temp	o. (°C) 1. }				_		NENTS
Sample results only	Relinquished by	Date	Time	·	Re	çeive	d by					l _					
	D.L.L.	12-20-05	15	00	La	int	dest	//		13/91/62	1940			•			ptions:
		ļ	 								ļi			•		•	
		 ,	 														
LAB USE ONLY Add calibration summary		<u> </u>	.]		LAR	USF O	NLY							•	-		-
Add Calibration Summary	OTHER INFORMATION															sumi	mary
Other	OTTER NATORIVIATION											-			iala		

ATTACHMENT 3

WATER SAMPLING RESULTS – JANUARY 3, 2006 NEASE CHEMICAL SITE, SALEM, OHIO



Analytical Report

Rütgers Organics Corporation

Exygen Research Project:

L7137

Testing Laboratory

Exygen Research 3058 Research Drive State College, PA 16801

Requester

Dr. Rainer Domalski Rutgers Organics Corporation 201 Struble Road State College, PA 16801



1 Introduction

Results are reported for the analysis of samples taken on 1/3/06. The samples were received from Rutgers Organics Corporation.

2 Sample Receipt

The sample shipment was logged in and given a unique Exygen laboratory identification number. All samples were stored refrigerated at 4°C from time of receipt until analysis. A copy of the custody documents, and sample login reports are presented in Attachment A. Listed below is the sample receipt information for the project received.

The samples were received on 1/4/06 in one package. The samples were received at 1.7°C.

Sample Identification	Exygen ID	Date Sampled	Sample Matrix	Requested Analysis
Influent 1-3-06	L7137-1	1/3/06	Water	ammonia-nitrogen, phosphorus, nitrate+nitnte
Effluent 1-3-06	L7137-2	1/3/06	Water	ammonia-nitrogen, phosphorus, nitrate+nitnte

3 Sample Analysis

3.1 Analysis

Listed in Table 1 are the parameters, methods and laboratory performing each of the analysis.

Table 1

Parameter	Method	Laboratory
ammonia-nitrogen	EPA 350.1	Severn Trent Laboratories (Pittsburgh)
phosphorus	EPA 365.2	Severn Trent Laboratories (Pittsburgh)
nitrate+nitrite	EPA 353.2	Severn Trent Laboratories (Pittsburgh)

3.2 Holding Times

All holding times were met for the requested analysis.

3.3 Quality Control

Quality control included those parameters prescribed by each method or SOP.

3.4 Sample Related Comments

Any problems encountered during the analysis of these samples are listed in the case narrative.

4 Data Summary

Results for this project are reported in Attachment B.

5 Data/Sample Retention

Samples are disposed of one month after the report is issued unless otherwise specified. All electronic data is archived on retrievable media and hard copy reports are stored in data folders maintained by Exygen Research. Hardcopy data is stored for a minimum of five years.

6 Attachments

- 6.1 Attachment A: Chain-of-Custody
- 6.2 Attachment B: Severn Trent Laboratories (Pittsburgh)

7 Signatures

Charles Simons, Laboratory Manager



CHAIN OF CUSTODY/ANALYSIS REQUEST FORM

Exygen Research Sample Receiving • 3048 Research Drive • State College, PA 16801, USA T: 814.231.8032 • F: 814.231.1580 • exygenresearch.com

		,
Page	f of	,

PROJECT/INFORMATION:	1	erie e	的人。	A P	(8)	rs (2	建筑地	THE THE		$\nabla \mathcal{U}$	MX	35(EOU	D.
Client (name & address): RUTGERS ORGANICS CAP. 1224 BENTON RO. SALEM, OHIO 44460 Phone: (330)332-4834 Fax: Sampler: Please fill out this form completely to ensure correct analysis and proper handling of your samples.									A + PHOSOHORUS		7.5			
SAMPLE ANALY ExyLIMS# Client Sample Identific L7137-1 INFLUENT 1-3 243 LXUX OUTFALL 1-3-	ation Co	Date	Collection Time 1200 1200	XX Grab	Composite	W W Number of Containers	Specify Matrix WATER. WATER	Comments		Ammoria	Nitenze	Nitrite		
LAB USE ONLY														
CHAIN OF CUST	Date 1-3-06	Time 1500		Rec	eive	d by	ID# <u>Clien</u>	Cooler Date	Temp. (°C) <u>1.</u> 7 Time 1045	Re:	oorat Samp Add Add	Dead ory R ole res case n quality	line: eport ults or arrativ	опs: mary
OTHER INFORMATION (B) (E) SA 1/4/06												raw da		

Express US Airbill 1 Feets 8532 4987 3363	tr. 0200 Recipients Copy
1 From Date 1-3-06	4a Express Package Service FedEx Promity Overnight Near business whemeen FedEx Standard Overnight Near business whemeen FedEx First Overnight Enter in a turn business whemeen
Sender's Phone 330 332-4834	FedEx 2Day FedEx Express Saver FedEx Express Saver Third business day*
COMPANY KUTGERS ORGANICS CORP.	4b Express Freight Service Packages over 150 lbs.
Address 1224 BENTON KOND	FedEx 1Day Freight* FedEx 2Day Freight FedEx 3Day Freight Cast for Confirmations.
City State C:N ZIP 1-1-1-60	Packaging FedEx Envelope* FedEx Pak* FedEx Snut Pak Box Tube Other
2 Your Internal Billing Reference O22-SALEM	6 Special Handling (Interest to Section 2017)
3 To Recipient's Phone 814 231-8032	SATURDAY Detvery Anabab ONLY for Feder Promy Overnight, Redat Day Feder 10wy freight, and Feder Stay Feder to sater CIP codes Feder Rest Overnight Feder to sater CIP codes Feder Fers Overnight Seder Day Feder Fers Overnight Feder Fers Overnight Feder Feder Fers Overnight Feder Feder Fers Overnight Feder Fed
COMPANY EXYGEN RESTANCH SAMPLE RECEIVING	Does this chipment contain dangerous goods? No. Pes standard Pes Standard Pes Standard Declaration on reference or refere
Recipient's 3048 KESTILCH DRIVE Deputhood/SuserRoom Deputhood/SuserRoom	7 Payment Bill to. Enter FedEx Acct. No or Credit Card No below Acct. No. Sender Acct. No. Recupient Third Party Credit Card Card Card Card Card Card Card Card
Address To request a package be held at a specific FedEx location, print FedEx eddress here City . STATE COLLEGE State PA . ZIP 16801	Total Packages Total Wouth Total Declared Value! Total Charges
	S
8532 4987 3363 W	8 Sign to Authorize Delivery Without a Signature By signing you authorize us to deliver this shapment without obtaining a signature and egree to indemnify and hold us harmless from any resulting claims. Questions? Visit our VPbs is the off tedex. come or call 1000 Getted 1000 Control of Control

.

.

.



ER CONTENTACE OF THE PROPERTY
Client (name & address):

Phone:

CHAIN OF CUSTODY/ANALYSIS REQUEST FORM

Exygen Research Sample Receiving • 3048 Research Drive • State College, PA 16801, USA T: 814.231.8032 • F: 814.231.1580 • exygenresearch.com

Project Manager (Name & E-mail Address):

Project Name:

.,			Pa	ge _		of	
j		T	111	REC		NE!	
	Ammania of Obstaclus	Noz + NOR					
	Ϋ́X	X					
		<i>X</i>					
	-		<u> </u>	 	-	}	<u> </u>
	L	L		<u> </u>	L	<u> </u>	L
	Lak	Sam Add Add Add	tory ple r case qual	Represults narrity cooratio	e: ort (s only ative	Optio /	ons:
l		Add	raw	uata			

Fax:Sampler:		P.O. #: 6691 JB10 Quotation #:											
Please fill out this form <i>complete</i>		_						+ Phospic	\$ W				
ExyEIMS#: Client Sample Identification	Collection Date 1/3/06	Collection Time 1400	/ / Grab)) Composite	W Number of Containers	Specify Matrix Water Water	Comments	XX Ammania	XX NO3				
L000 7/37-00 à													
CHAIN OF CUSTODY Relinquished by Date Time 1/5/06 1/09					ooler d by	ID# 1, 多類 能 2	Cooler Temp. (°C)	Res	orat Sam Add Add Add	Dead cory Ro ple res case n quality calibra	eportults of arratic contractions	t Opl nly ve rol sur	mmary
OTHER INFORMATION							IS AN EXACT COPY OF RIGINAL DOCUMENT" DATE LISTE			raw da er			REV 2-03



3058 Research Drive State College, PA 16801

Phone: 814-272-1039 Fax: 814-231-1580

True

True

True

True

Direction / Handled By

Conform COC Sample:

Temp. Control/Temp.

Conform COC.

Conform Sample.

Conform Request

Login

Login Group: L0007137

Login #. 7248
Project: P0001881
Company Name: Rutgers Organics

Company Name: Rutgers Organics Submitted By Rainer Domalski

Login Type Immediate Receipt of Samples

 Started:
 True

 Date Start:
 01/04/2006

 Due Date:
 01/14/2006

 Description:
 01/04/2006

Received Date: 01/04/2006 Received By. Edwards, Eric

Spread Sample:

Label

Package

Exygen SD/PI Biss, Jeffrey

Carton

Project Title/Type Environmental Sample Analysis / ROUTINE

Date / Condition

Login Notes.

Packages / Containers

Shipper / ID

PK0008253		eceived Date: 1/4/06 10.45 ickage & Contents Uncompromised			FEDEX 853249873363	Wet Ice 1.7		RECEIVED Edwards, Eric
<u>Container #</u> C0136561	Gross Weight 772 20 g		Container Typ nL amber glass		<u>Preservative</u> H2SO4, Sulfunc Acid	Mfg L	<u>ot</u>	Mfg ID
C0136564	584 33 g	50	00 ml Clear Pla Narrow	stic	H2SO4, Sulfuric Acid			
C0136565	590 43 g	50	00 ml Clear Pla Narrow	stic	H2SO4, Sulfuric Acid			
C0136566	775 60 g	500 r	nL amber glass	bottle	H2SO4, Sulfuric Acid			
C0136567	591 56 g	50	00 ml Clear Pla Narrow	stic	H2SO4, Sulfuric Acid			
C0136568	590 83 g	50	00 ml Clear Pla Narrow	stic	H2SO4, Sulfuric Acid			
		-			Samples		•	· · · · · · · · · · · · · · · · · · ·
Sample ID L0007137-0001	Container C0136561 C0136564 C0136565	<u>Matrix</u> LIQUID	<u>Fraction</u> Water	Sample Influen	2 i 1-3-06		<u>Date Sampled</u> 01/03/2006	<u>Date Due</u> 01/14/2006
L0007137-0002	C0136566 C0136567 C0136568	LIQUID	Waler	Outfall	1-3-06		01/03/2006	01/14/2006

Login Reviewed By. Date/Time

Date/Time 1/04/06 1/20

1/4/2006 Login.rpt Report Version: Dec 13 2005 1:43PM

Page 1 of 1

Instance

R0218485

Attachment A

Chain-Of Custody

Attachment B

Data Summary, Severn Trent Laboratories (Pittsburgh)



STL Pittsburgh 301 Alpha Drive Pittsburgh, PA 15238

Tel: 412 963 7058 Fax: 412 963 2468 www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. EXYGEN RESEARCH

Exygen Research

Lot #: C6A060306

Jeff Biss

Exygen Research

SEVERN TRENT LABORATORIES, INC.

Christina M. Kovitch Project Manager

January 12, 2006





NELAC REPORTING:

The format and content of the attached report meets NELAC standards and guidelines except as noted in the narrative. The table below presents a summary of the certifications held by STL Pittsburgh. Our primary accreditation authority for the Non-potable water and Solid & Hazardous waste programs is Pennsylvania DEP. A more detailed parameter list is available upon request. Please ask your project manager for this information when required.

Certifying State/Program	Certificate #	Program Types	STL Pittsburgh
NFESC	NA .	NAVY	X
USACE	NA	Corps of Engineers	X
US Dept of Agriculture	(#S-46425)	Foreign Soil Import Permit	X
Arkansas	(#03-022-1)	ww	X
		. HW	Χ
California – nelac	04224CA	ww	Χ.
		HW	X
Connecticut	(#PH-0688)	ww	X
		HW	X
Florida – nelac	(#E87660)	ww	X
		HW	ΧX
Illinois – nelac	(#200005)	ww	X
<u> </u>	, , ,	HW	X
Kansas – nelac	(#E-10350)	ww	X
		HW	X
Louisiana – nelac	(#93200)	ww	X
	į ,	HW	X
New Hampshire - nelac	(#203002)	ww	X
	İ		
New Jersey – nelac	(PA-005)	ww	Х
	<u> </u>	HW	X
New York - nelac	(#11182)	w	X
	ļ	HW	X X
North Carolina	(#434)	ww	
		HW	<u>X</u>
North Dakota	R-075	ww	X
		HW	X
Ohio Vap	(#CL0063)	ww	X
	ļ	HW	<u> </u>
Pennsylvania - nelac	(#02-00416)	w	X
	<u> </u>	HW	X
South Carolina	(#89014001)	ww	X
 		HW	X
Utah – nelac	(STLP)	ww	X
		HW	X
West Virginia	(#142)	ww	X
		HW	X
Wisconsin	998027800	ww	X
L		HW	X

The codes utilized for program types are described below:

HW Hazardous Waste certification

WW Non-potable Water and/or Wastewater certification

Laboratory has some form of certification under the specific program. Many states certify laboratories for specific parameters or tests within a category. The information in the table indicates the lab is certified in a general category of testing. Please contact the laboratory if parameter specific certification information is required.

CASE NARRATIVE EXYGEN RESEARCH

LOT # C6A060306

Sample Receiving:

STL Pittsburgh received samples on January 6, 2006. The cooler was received within the proper temperature range.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

General Chemistry:

The STL North Canton, OH laboratory performed the phosphorus analysis. All results are included in the report.

METHODS SUMMARY

C6A060306

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Nitrate-Nitrite	MCAWW 353.2	MCAWW 353.2
Nitrogen, Ammonia	MCAWW 350.1	MCAWW 350.1
Total phosphorus	MCAWW 365.2	MCAWW 365.2

References:

MCAWW

"Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SAMPLE SUMMARY

C6A060306

₩O # 5	SAMPLE	CLIENT SAMPLE	SAMPLED DATE	SAMP TIME
HT8LL HT8LM	001 002	L0007137-0001 L0007137-0002	01/03/06 01/03/06	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit
- This report must not be reproduced, except in full, without the written approval of the laboratory
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight

CHAIN OF CUSTODY/ANALYSIS REQUEST FORM

Exygen Research Sample Receiving - 3048 Research Drive - State College, PA 16801, USA T: 814.231.8032 • F: 814.231.1580 - exygenresearch.com Page of LINGUEGENIA ORNUATION DE L'ANALUS ALLA MALVALERI QUE TERRI DE LE COMPANIO DE LA COMPANIO DEL COMPANIO DE LA COMPANIO DE LA COMPANIO DEL COMPANIO DE LA COMPANIO DEL COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DEL COMPANIO DE LA COMPANIO DEL COMPANIO DE LA COMPANIO DE LA COMPANIO DEL COMPANIO DEL COMPANIO DEL COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DEL COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMP NAMES TREOUTS TED TO Project Manager (Name & E-mail Address): Client (name & address): Project Name: + Phospholus Phone: P.O. #: 6691 JB10 Fax: Quotation #: Sampler: Please fill out this form completely to ensure correct analysis and proper handling of your samples. Ammakis Number of Containers Composite SAMPLE ANALYSIS Collection Collection ExyLIMS# Client Sample Identification Specify Matrix Comments Date Time 1/7/06 100 LOON 7137-0001 Water LU00 7137-002 1200 12770 7 1 1 1 2 1 2 1 LAB USE ONLY **PROJECT REQUIREMENTS** CHAIN OF CUSTODY Cooler Temp. (°C) Cooler ID # Results Deadline: Received by Relinquished by Date Time Time **Laboratory Report Options:** 1109 Sample results only Add case narrative Add quality control summary LAB USE ONLY Add calibration summary OTHER INFORMATION Add raw data Other

σ

Client Sample ID: L0007137-0001

General Chemistry

Lot-Sample #...: C6A060306-001 Work Order #...: HT8LL Matrix.....: WATER

PARAMETER	RESULT	RL	UNITS	METHO	D	PREPARATION- ANALYSIS DATE	PREP BATCH #
Ammonia Nitrogen	0.64	0.10	mg/L	MCAWW	350.1	01/09-01/10/06	6009266
	מ	lution Fact	or: 1	Analysis	Time .: 12:47	MS Run #	: 6009154
Nitrate-Nitrite	0.21	0.10	mg/L	MCAWW	353.2	01/10/06	6010046
	D	lution Fact	or: 1	Analysis	Time: 00.00	MS Run #	: 6010027
Total phosphorus	ND	0.10	mg/L	MCAWW	365.2	01/08/06	6008025
	D:	lution Fact	or. 1	Analysis	Time 00:00	MS Run #.	: 6008013

Client Sample ID: L0007137-0002

General Chemistry

Lot-Sample #...: C6A060306-002 Work Order #...: HTBLM Matrix....: WATER

PARAMETER	RESULT	RL_	UNITS	METHO	D	PREPARATION- ANALYSIS DATE	PREP BATCH #
Ammonia Nitrogen	0.78 D	0.10 ilution Fact	mg/L or: 1		350.1 Time 12:49	01/09-01/10/06 MS Run #	
Nitrate-Nitrite	ND D:	0.10 ilution Fact	mg/L or: 1	-	353.2 Time: 00:00	01/10/06 MS Run #	6010046
Total phosphorus	0.23	0.10	mg/L	MCAWW Analysis	365.2	01/08/06 MS Run #	6008025

METHOD BLANK REPORT

General Chemistry

Client Lot #:	06E060A0C			Matr	ix WA	TER
PARAMETER Ammonia Nitrogen	RESULT		UNITS #: HVAWH1AA	- · · · · · · · · · · · · · · · · · · ·		
	ND	0.10 Dilution Factor Analysis Time		MCAWW 350.1	01/09-01/10/06	6009266
Nitrate-Nitrite	ND	Work Order 0.10 Dilution Factor Analysis Time	mg/L or: 1	MB Lot-Sample #: MCAWW 353.2	C6A100000-046 01/10/06	6010046
Total phosphorus	ND	Work Order 0.10 Dilution Facto Analysis Time		MB Lot-Sample # MCAWW 365.2	A6A080000-025 01/08/06	6008025

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #: C6A060306	Matrix WATER

PARAMETER Ammonia Nitroge	PERCENT RECOVERY	RECOVERY LIMITS METHOD Work Order #: HVAWHIAC LCS Lot	PREPARATION- ANALYSIS DATE -Sample#: C6A09000	PREP BATCH #
Millionia Milloge	97	(90 - 110) MCAWW 350.1 Dilution Factor: 1 Analysis Time	01/09-01/10/06	6009266
Nitrate-Nitrite	102	Work Order #: HVCCR1AC LCS Lot (90 - 110) MCAWW 353.2	01/10/06	
Total phosphoru		Dilution Factor: 1 Analysis Time Work Order #: HT9T81AC LCS Lot	-Sample#: A6A08000	
NOTE(S):	92	(53 - 134) MCAWW 365.2 Dilution Factor: 1 Analysis Tim	01/08/06 ne 00 00	6008025

Calculations are performed before rounding to avoid round-off errors in calculated results

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: C6A060306 Matrix....: WATER

	SPIKE	MEASUR	_ -	PERCNT		PREPARATION- PREP
PARAMETER	AMOUNT	AMOUNT	UNITS	RECVRY	METHOD	ANALYSIS DATE BATCH #
Ammonia Nitr	ogen		Work Order #:	HWAVH:	1AC LCS Lot-Sampl	e#: C6A090000-266
	2.00	1.94	mg/L	97	MCAWW 350.1	01/09-01/10/06 6009266
			Dilution Factor	: 1	Analysis Time .: 12	.14
Nitrate-Nitr	ıte		Work Order #:	HVCCR	IAC LCS Lot-Sampl	e#: C6A100000-046
	4.00	4.07	mg/L	102	MCAWW 353.2	01/10/06 6010046
			Dilution Factor:	: 1	Analysis Time. : 00	:00
Total phosph	orus		Work Order #	нтэтв:	IAC LCS Lot-Sampl	e#: A6A080000-025
	2.93	2.70	mg/L	92	MCAWW 365.2	01/08/06 6008025
			Dilution Factor:	: 1	Analysis Time: 00	.00

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: C6A060306 Matrix....: WATER

PARAMETER Ammonia Nitr	PERCENT RECOVERY ogen 106 101	(90 -	S RPD LIMITS WO#: HT8LM1AG-MS/	MCAWW 350.1 MCAWW 350.1	PREPARATION- ANALYSIS DATE MS Lot-Sample #: 0 01/09-01/10/0	C6A060306-002
Nitrate-Nitr	ite		WO#: HT72N1C3-MS/	HT72N1C4-MSD	MS Lot-Sample #: 0	6A060220-009
	95	(90 -	110)	MCAWW 353.2	01/10/06	6010046
	98 N	(90 -	110) 1.5 (0-20) Dilution Factor 1 Analysis Time . 00.6 MS Run # 6016	20	01/10/06	6010046
Nitrate-Nitr	ite		WO#: HT7901AJ-MS/	HT7901AK-MSD	MS Lot-Sample #: C	6A060267-001
	98	(90 -	110)	MCAWW 353.2	01/10/06	6010046
·	95	(90 -	110) 1.8 (0-20) Dilution Factor: 1 Analysis Time: 00:0 MS Run #: 6010	10	01/10/06	6010046
Total phosphe	orus		WO#: HT8LMIAE-MS/	HT8LMLAF-MSD	MS Lot-Sample #: C	6A060306-002
	107	(10 -	199)	MCAWW 365.2	01/08/06	6008025
	98 .	(10 -	199) 6.5 (0-46) Dilution Factor: 1 Analysis Time: 00:0 MS Run #: 6008	00	01/08/06	6008025

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits

ATTACHMENT 4

WATER SAMPLING RESULTS – JANUARY 17, 2006 NEASE CHEMICAL SITE, SALEM, OHIO



STL North Canton 4101 Shuffel Drive NW North Canton, OH 44720

ANALYTICAL REPORT

Exygen Research - NC: TSS, TDS

Lot #: A6A190207

Jeff Biss

Exygen Research 3058 Research Drive State College, PA 16801

SEVERN TRENT LABORATORIES, INC.

Frank J. Calovini
Project Manager

January 24, 2006

CASE NARRATIVE

A6A190207

The following report contains the analytical results for three water samples submitted to STL North Canton by Exygen Research from the Exygen Research - NC TSS TDS Site. The samples were received January 19, 2006, according to documented sample acceptance procedures.

STL utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

STL North Canton attests to the validity of the laboratory data generated by STL facilities reported herein. All analyses performed by STL facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. STL's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

If you have any questions, please call the Project Manager, Frank J. Calovini, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT." The total number of pages in this report is 16.

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 4.3°C.

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

EXECUTIVE SUMMARY - Detection Highlights

A6A190207

PARAMETER		RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
L0007264-001 01/17/06 13:00	001				
Total Dissolved Solids		480	10	mg/L	MCAWW 160.1
Total Suspended Solids		18	4.0	mg/L	MCAWW 160.2
L0007264-002 01/17/06 13:00	002				
Total Dissolved Solids		460	10	mg/L	MCAWW 160.1
L0007264-003 01/17/06 13:00	003				
Total Dissolved Solids		470	10	mg/L	MCAWW 160.1

ANALYTICAL METHODS SUMMARY

A6A190207

PARAMETER	ANALYTICAL METHOD		
Filterable Residue (TDS)	MCAWW 160.1		
Non-Filterable Residue (TSS)	MCAWW 160.2		
- 6			

References:

MCAWW

"Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SAMPLE SUMMARY

A6A190207

DATE TIME
01/17/06 13:00 01/17/06 13:00 01/17/06 13:00

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages
- All calculations are performed before rounding to avoid round-off errors in calculated results
- Results noted as "ND" were not detected at or above the stated limit
- This report must not be reproduced, except in full, without the written approval of the laboratory
- Results for the following parameters are never reported on a dry weight basis color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, soliubility, temperature, viscosity, and weight

Client Sample ID: L0007264-001

General Chemistry

Lot-Sample #...: A6A190207-001 Work Order #...: HVXTW Matrix.....: WG

Date Sampled...: 01/17/06 13:00 Date Received..: 01/19/06

PREPARATION-RLPARAMETER RESULT UNITS METHOD ANALYSIS DATE BATCH # Total Dissolved 480 10 MCAWW 160.1 01/20-01/23/06 6020392 mg/L Solids Dilution Factor: 1 Total Suspended 18 4.0 MCAWW 160.2 01/20/06 6020376 mg/L Solids

Dilution Factor: 1

Client Sample ID: L0007264-002

General Chemistry

Matrix....: WG Lot-Sample #...: A6A190207-002 Work Order #...: HVXT3

Date Sampled...: 01/17/06 13:00 Date Received..: 01/19/06

PARAMETER Total Dissolved Solids	RESULT	RL 10	UNITS mg/L	METHOD MCAWW 160.1	PREPARATION- ANALYSIS DATE 01/20-01/23/06	PREP BATCH # 6020392			
	Dilution Factor: 1								
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	01/20/06	6020376			
Dilution Factor. 1									

Client Sample ID: L0007264-003

General Chemistry

Lot-Sample #...: A6A190207-003 Work Order #...: HVXT7 Matrix...... WG

Date Sampled...: 01/17/06 13:00 Date Received..: 01/19/06

PARAMETER Total Dissolved	RESULT	RL 10	UNITS mq/L	METHOD MCAWW 160.1	PREPARATION- ANALYSIS DATE 01/20-01/23/06	PREP BATCH #		
Solids	Dilution Factor: 1							
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	01/20/06	6020376		

Dilution Factor: 1



QUALITY CONTROL SECTION

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A6A190207 Matrix....: WATER

		REPORTING	G		PREPARATION-	PREP
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	BATCH #
Total Dissolved Solids		Work Order	#: HV4291AA	MB Lot-Sample #:	A6A200000-392	
	N D	10	mg/L	MCAWW 160.1	01/20-01/23/06	6020392
		Dilution Fact	or: 1			
Total Suspended Solids		Work Order	#: HV2VM1AA	MB Lot-Sample #:	A6A200000-376	
	ND	4.0	mg/L	MCAWW 160.2	01/20/06	6020376
		Dilution Fact	or: 1			
NOTE (S):						

Calculations are performed before rounding to avoid round-off errors in calculated results

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A6A190207 Matrix....: WATER

PARAMETER Total Dissolved Solids	PERCENT RECOVERY	RECOVERY LIMITS Work Order	METHOD #: HV4291AC	LCS Lot	PREPARAT <u>ANALYSIS</u> -Sample#:	DATE	PREP <u>BATCH #</u> -392
	97	(88 - 110) Dilution Fact	MCAWW 160.1		01/20-01	/23/06	6020392
Total Suspended Solids		Work Order	#: HV2VM1AC	LCS Lot	-Sample#:	A6A200000	-376
	96	(73 - 113) Dilution Fact	MCAWW 160.2		01/20	/06	6020376

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A6A190207 Work Order #...: HVX00-SMP Matrix.....: WATER

HVX00-DUP

Date Sampled...: 01/18/06 13:30 Date Received..: 01/19/06

	DUPLICAT	E		RPD		PREPARATION-	PREP
PARAM RES	JLT RESULT	<u>UNITS</u>	RPD	LIMIT	METHOD	ANALYSIS DATE	BATCH #
Total Dis	solved				SD Lot-Sample #:	A6A190220-001	
Solids							
860	860	mg/L	0.12	(0-20)	MCAWW 160.1	01/20-01/23/06	6020392
		Dilution	Factor: 1				
Total Susp Solids	pended				SD Lot-Sample #:	A6A190220-001	
ND	ND	mg/L Dilution	200 Factor: 1	(0-20)	MCAWW 160.2	01/20/06	6020376



PROJECT INFORMATION

CHAIN OF CUSTODY/ANALYSIS REQUEST FORM

Exygen Research Sample Receiving • 3048 Research Drive • State College, PA 16801, USA T: 814.231.8032 • F: 814.231.1580 • exygenresearch.com

	rage_	of _	
ANALY	SES RE	QUESTE	D
	1	1 1	
	1		
		1 1	
55, 705		1 1	
1.1		1 1	
12	}]		
1H			ļ ļ
7 []			
\ <u>\</u>		┼╌┼╌	╁─╴
121		 	-
\bar{\chi}			
			ļ
		+ + -	-
+ + -		┼╌┼╌	
	L	<u> </u>	
PROJEC	T REQ	UIREME	NTS
	Deadlin		

	ame & address):									1 1	1		
				Proje	ect 1	Vam	ie:			1 1			
Phone:							115				1		
Fax:			_	PO.	#:		6691 381	0		31 I		-	
ampler:				Quo	tatio	on #	*:					Ì	
DI	ease fill out this form <i>comple</i> s	teluto en		ect s	nalv	cic =	and proper h		1 1'	4 I			1
FIC	tase illi vat tills tottil <i>compici</i>				AJ IGAI Y				1 6				
		icij to cii.	sure corr				ina proper n	andling of your samples.		1			
		iciy to cii.	sure con				ind proper in	andling of your samples.		+			
			sure corr							1			
AM			sure corr							100			
A STATE OF THE	PLE ANALYSIS									100			
a magyaran	PLE ANALYSIS Client Sample Identification	Collection	Collection				Specify Matrix						
	PLE ANALYSIS Client Sample Identification L 0007244 - 001	Collection Date	Collection Time										
	Client Sample Identification LOWD 14 - 001 LOWD 14 - 602	Collection Date	Collection Time				Specify Matrix						
	PLE ANALYSIS Client Sample Identification L 0007244 - 001	Collection Date	Collection Time				Specify Matrix		X				
	Client Sample Identification LOWD 14 - 001 LOWD 14 - 602	Collection Date	Collection Time				Specify Matrix						
	Client Sample Identification LOWD 14 - 001 LOWD 14 - 602	Collection Date	Collection Time				Specify Matrix						
a magyaran	Client Sample Identification LOWD 14 - 001 LOWD 14 - 602	Collection Date	Collection Time				Specify Matrix		J J J J J J J J J J J J J J J J J J J				

CHAIN OF CUSTODY

Relinquished by	Date	Time
	1/18/200	1500

Received 57	ine
LAR LISE ONLY	

	LAB USE UNLI	
OTHER INFORMATION		

k	PROJECT REQUIREMENTS
	Results Deadline:
	Laboratory Report Options:
l	Sample results only
ı	Add case narrative
i	Add quality control summary
	Add calibration summary
	Add raw data
ı	☐ Other

STL Cooler Receip North Canton Fac		rative	t Number	:_ <u>\</u>	
Client: Exyge Cooler Received on:	Research 1/19/06	Project:Opened on://9/06		Quote#: 69	Signature)
Fedx Client Drop Of Stetson US Cargo		DHL FAS STL	Courier [_	J	
STL Cooler No#			t Cooler		
1. Were custody seals of	n the outside of t	he cooler? Yés 🔲 No 💢	[Int	act? Yes No [_ NA X
If YES, Quantity Were the custody sea	ls signed and dat	red?	Yε	s No NA	r x
2. Shipper's packing slip	_			s 📈 No 🗌 NA	
3. Did custody papers a			Re	linquished by client?	Yes 🛛 No 🗌
4. Did you sign the cust		_ 5-7		s 🔯 No 🗌	,
5. Packing material used				her:	
		C (see back of form for	or multiple		0.61
METHOD: Temp Vial [COOLANT: Wet Ice	 /		ittles []	IR X ICE/H	20 Slurry 🔲
7. Did all bottles arrive	<u></u>			Yes No	
		reconciled with the COC?		Yes No	
9. Were samples at the o				Y1	А <u>[</u> Ž]
10. Were correct bottles				Yes 🔯 No 🗍	<i></i>
11. Were air bubbles >6 i	mm in any VOA	vials?		Yes No No No	A 🔀
12. Sufficient quantity re	-			Yes No	·
		er? Yes 🗌 No 📈 Were			No 🔯
		cooler number in which it			NA' X
	Date:	by:	via Voi	ce Mail Verbal	Otker 🗌
Concerning:	estatum need ar est komule	en en en en en en en en en en en en en e	apoží aratí e ve	Constitution of the second sec	Language of the control of the contr
1. CHAIN OF CUSTOL	5.6 是特色生物型的 N	to the state of th	September 1 Septem	an 加加斯尼亚克 医髓性神经 加加 (1) 医原金	² 라마 (리 개발 시 기관 (Ph.)
The following discr		ad.			
The following discr	cpancies occurre	çu.			
					
2. SAMPLE CONDITION)N				
Sample(s)				commended holding	time had expired.
Sample(s)		were receive	ed in a brol	cen container.	· · · · · · · · · · · · · · · · · · ·
3. SAMPLE PRESERV	ATION				
Sample(s)				served in sample rece	
		Lot # 100405-HNO3; Sulfuric Acid I			Lot #-100405 -NaOH;
Sample(s)	UU5U4-HCI; Sodium I	Hydroxide and Zinc Acetate Lot # 07		O2ZN/NaOH 6 mm in diameter (co	n DM)
4. Other (see below or b	ack)	were received wit	ii ouddle >	o min in diameter (co	c; Pivi)
4. Other (see below of b	iich)				
					
					
Client ID		pН		Date	Initials
					
	-				
I	1			[í

STL Cooler Receipt Form/Narrative North Canton Facility pН Date Initials Client ID Cooler Temp Method Coolant Discrepancies Cont.



END OF REPORT

Attachment E

Data Summary, Severn Trent Laboratories (Knoxville)



STL Knoxville 5815 Middlebrook Pike Knoxville, TN 37921

Tel: 865 291 3000 Fax: 865 584 4315 www.stl-inc.com

ANALYTICAL REPORT

State College - TO14

Lot #: H6A200140

Jeff Biss

Exygen Research 3058 Research Drive State College, PA 16801

SEVERN TRENT LABORATORIES, INC.

Project Manager

January 26, 2006

Original Chain of Custody Documentation



PROJECT INFORMATION

CHAIN OF CUSTODY/ANALYSIS REQUEST FORM

Exygen Research Sample Receiving • 3048 Research Drive • State College, PA 16801, USA T: 814.231.8032 • F: 814.231.1580 • exygenresearch.com

14 分数(数(t))

Page	of	

ANALYSES REQUESTED

Client (na	ame & address):	arch							e & E-mail Address):						
	·		,	_	 Proj	ect	Nan	ne:							
Phone:															
Fax:					P.O.	#:		0414		1 1					
Fax:Sampler:					P.O. #: <u> </u>							İ			
									andling of your samples.		1/				
SAM	PLE ANALY	1515		, ,		Composite	ber of ainers	Specify Matrıx			10				
ExyLIMS#	Client Sample Identific	ation	Collection Date	Collection Time	Grab	Com	E S	Specify Matrix	Comments						
. 	L0007264-4		1/17/06	1300			7	Air		1	_		 		
X (********	L:007264-5		1/17/06	1300			1	A:V		1	_				$\dashv \dashv$
			,,,,	, ,				7,7							
Metarologica (C															
digara ki kakan kasan ini 1997 - 1997														[
Signatura (Company)											\perp				
naide							<u> </u>								
CHA!	N OF CUS	TOD	Y			C	oolei	· ID #	Cooler Temp. (°C)			JECT R			NENTS
Relinquishe	d by	Date	Time		Red	eive	d by		Date Time						
_10	h	1/18/06	145	50		111	1/~	\ \	V20/06 11.10		Labo	oratory	Repo	rt Op	tions:
					, .	· ·	1.7					iample r		-	
					٠,		/ N	**************************************				Add case			
					1.6				- 第一 第一 第一 第一 第一 第一 第一 第一 第一 第一 第一 第一 第一			Add qual	•		- 1
						JSE O	NLY			_		Add calib		sumr	nary
OTHER IN	FORMATION 1-8 24	UPS NO	custody	1 Seci Pr	5111							Add raw	data		
recitemp.	Ambient trachine	174	65 74	5636	187	2/2	35					Other			
7	12 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1			$\overline{}$	<u> </u>		251	1			·			

H6A200140 Analytical Report	1
Sample Receipt Documentation	17
Total Number of Pages	18

,

EXECUTIVE SUMMARY - Detection Highlights

H6A200140

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
L0007264-4 01/17/06 13:00 00	1			
Ethylbenzene m-Xylene & p-Xylene o-Xylene 1,2-Dichlorobenzene	4.5 26 6.5 1.5	1.0 1.0 1.0	ppb(v/v) ppb(v/v) ppb(v/v) ppb(v/v)	EPA-19 TO-14 EPA-19 TO-14 EPA-19 TO-14 EPA-19 TO-14
L0007264-5 01/17/06 13:00 00	2			
Toluene 1,2-Dichlorobenzene	6.0 3.3	1.0 1.0	ppb(v/v) ppb(v/v)	EPA-19 TO-14 EPA-19 TO-14

ANALYTICAL METHODS SUMMARY

H6A200140

PARAMETE	ER	ANALYTICAL METHOD
Volatile	e Organics by TO14	EPA-19 TO-14
Referenc	es:	
EPA-19	"Compendium of Methods for the Organic Compounds in Ambient	

January 1988

SAMPLE SUMMARY

H6A200140

<u>WO # </u>	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
HV1QQ HV1QX	001 002	L0007264-4 L0007264-5	01/17/06 01/17/06	
MOTITE (C)				

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results
- Results noted as "ND" were not detected at or above the stated limit
- This report must not be reproduced, except in full, without the written approval of the laboratory
- Results for the following parameters are never reported on a dry weight basis color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight

PROJECT NARRATIVE H6A200140

The results reported herein are applicable to the samples submitted for analysis only.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The original chain of custody documentation is included with this report.

Sample Receipt

Custody seals were not present upon sample receipt at STL Knoxville.

Quality Control

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

STL Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Cert. #05-043-0, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert #906 (SDWA, expires 6/24/05), Hawaii DOH, Illinois EPA Cert. #000687, Indiana DOH Cert. #C-TN-02, Iowa DNR Cert #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert #03079, Louisiana DOHH Cert. #LA030024, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert #64, Ohio EPA VAP Cert. #CL0059, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-00576, South Carolina DHEC Lab ID #84001001, Tennessee DOH Lab ID #02014, Utah DOH Cert. # QUAN3, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, West Virginia DEP Cert. #345, Wisconsin DNR Lab ID #998044300, US Army Corps of Engineers, Naval Facilities Engineering Service Center and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

Client Sample ID: L0007264-4

GC/MS Volatiles

Lot-Sample #...: H6A200140-001 Work Order #...: HV1QQ1AA Matrix...... AIR

Prep Batch #...: 6023287

Dilution Factor: 5 Method.....: EPA-19 TO-14

		REPORTING	
PARAMETER	RESULT	LIMIT	UNITS
Bromodichloromethane	ND	1.0	ppb (v/v)
Bromoform	ND	1.0	ppb(v/v)
Dibromochloromethane	ND	1.0	ppb (v/v)
Dibromomethane	ND	2.0	ppb(v/v)
trans-1,2-Dichloroethene	ND	1.0	ppb(v/v)
Cumene	ND	2.0	ppb(v/v)
n-Propylbenzene	ND	2.0	ppb(v/v)
1,2,3-Trichloropropane	ND	2.5	ppb(v/v)
Dichlorodifluoromethane	ND	2.0	ppb(v/v)
Vinyl chloride	ND	2.0	ppb(v/v)
Chloroethane	ND	2.0	ppb(v/v)
Trichlorofluoromethane	ND	2.0	ppb(v/v)
1,1-Dichloroethene	ND	1.0	ppb(v/v)
1,1-Dichloroethane	ИD	1.0	ppb(v/v)
cis-1,2-Dichloroethene	ND	1.0	ppb(v/v)
Chloroform	ND	1.0	ppb(v/v)
1,1,1-Trichloroethane	ND	1.0	ppb (v/v)
Carbon tetrachloride	ND	1.0	ppb(v/v)
Benzene	ND	1.0	ppb(v/v)
1,2-Dichloroethane	ND	1.0	ppb(v/v)
Trichloroethene	ND	1.0	ppb(v/v)
1,2-Dichloropropane	ND	1.0	ppb(v/v)
cis-1,3-Dichloropropene	ИD	1.0	ppb(v/v)
Toluene	ND	1.0	ppb(v/v)
trans-1,3-Dichloropropene	ND	1.0	ppb(v/v)
1,1,2-Trichloroethane	ND	1.0	ppb(v/v)
Tetrachloroethene	ND	1.0	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	1.0	ppb(v/v)
Chlorobenzene	ND	1.0	ppb(v/v)
Ethylbenzene	4.5	1.0	ppb(v/v)
m-Xylene & p-Xylene	26	1.0	ppb(v/v)
o-Xylene	6.5	1.0	ppb(v/v)
Styrene	ND	1.0	ppb(v/v)
1,1,2,2-Tetrachloroethane	ND	1.0	ppb(v/v)
1,3,5-Trimethylbenzene	ND	1.0	ppb(v/v)
1,3-Dichlorobenzene	ND	1.0	ppb(v/v)
1,4-Dichlorobenzene	ND	1.0	ppb (v/v)
1,2-Dichlorobenzene	1.5	1.0	ppb(v/v)

(Continued on next page)

Client Sample ID: L0007264-4

GC/MS Volatiles

Lot-Sample #...: H6A200140-001 Work Order #...: HV1QQ1AA Matrix......: AIR

	PERCENT	RECOVERY
SURROGATE	RECOVERY	LIMITS
1,2-Dichloroethane-d4	118	(70 - 130)
Toluene-d8	100	(70 - 130)
4-Bromofluorobenzene	85	(70 - 130)

L0007264-4

GC/MS Volatiles

Lot-Sample #: H6A200140-001

Work Order #: HV1QQ1AA Matrix: AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

		ESTIMATED	RETENTION	
PARAMETER	CAS #	RESULT	TIME	UNITS
Difluorochloromethane	75-45-6	13 NJ M	3.6101	ppb(v/v)
Methyl Alcohol	67-56-1	200 NJ M	3.9768	ppb(v/v)
Undecane	1120-21-4	6.8 NJ M	19.695	ppb(v/v)

NOTE (S):

M Result was measured against nearest internal standard assuming a response factor of 1

Client Sample ID: L0007264-5

GC/MS Volatiles

Lot-Sample #...: H6A200140-002 Work Order #...: HV1QX1AA Matrix...... AIR

Date Sampled...: 01/17/06 Date Received..: 01/20/06 Prep Date....: 01/21/06 Analysis Date..: 01/21/06

Prep Batch #...: 6023287

Dilution Factor: 5 Method..... EPA-19 TO-14

		REPORTIN	īG
PARAMETER	RESULT	LIMIT	UNITS
Bromodichloromethane	ND	1.0	ppb(v/v)
Bromoform	ND	1.0	ppb(v/v)
Dibromochloromethane	ND	1.0	ppb(v/v)
Dibromomethane	ND	2.0	ppb(v/v)
trans-1,2-Dichloroethene	ND	1.0	ppb(v/v)
Cumene	ND	2.0	ppb(v/v)
n-Propylbenzene	ND	2.0	ppb(v/v)
1,2,3-Trichloropropane	ND	2.5	ppb(v/v)
Dichlorodifluoromethane	ND	2.0	ppb(v/v)
Vinyl chloride	ND	2.0	ppb(v/v)
Chloroethane	ND	2.0	ppb(v/v)
Trichlorofluoromethane	ND	2.0	ppb(v/v)
1,1-Dichloroethene	ND	1.0	ppb(v/v)
1,1-Dichloroethane	ND	1.0	ppb(v/v)
cis-1,2-Dichloroethene	ND	1.0	ppb(v/v)
Chloroform	ND	1.0	ppb(v/v)
1,1,1-Trichloroethane	ND	1.0	ppb(v/v)
Carbon tetrachloride	ND	1.0	ppb(v/v)
Benzene	ND	1.0	ppb(v/v)
1,2-Dichloroethane	ND	1.0	ppb (v/v)
Trichloroethene	ND	1.0	ppb (v/v)
1,2-Dichloropropane	ND	1.0	ppb (v/v)
cis-1,3-Dichloropropene	ND	1.0	ppb(v/v)
Toluene	6.0	1.0	ppb(v/v)
trans-1,3-Dichloropropene	ND	1.0	ppb(v/v)
1,1,2-Trichloroethane	ND	1.0	ppb(v/v)
Tetrachloroethene	ND	1.0	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	1.0	ppb(v/v)
Chlorobenzene	ND	1.0	ppb(v/v)
Ethylbenzene	ND	1.0	ppb(v/v)
m-Xylene & p-Xylene	ND	1.0	ppb(v/v)
o-Xylene	ND	1.0	ppb(v/v)
Styrene	ND	1.0	ppb(v/v)
1,1,2,2-Tetrachloroethane	ND	1.0	ppb(v/v)
1,3,5-Trimethylbenzene	ND	1.0	ppb(v/v)
1,3-Dichlorobenzene	ND	1.0	ppb(v/v)
1,4-Dichlorobenzene	ND	1.0	ppb(v/v)
1,2-Dichlorobenzene	3.3	1.0	ppb (v/v)
•			

(Continued on next page)

Client Sample ID: L0007264-5

GC/MS Volatiles

Lot-Sample #:	H6A200140-002	Work Order #:	HV1QX1AA	Matrix	: AIR
---------------	---------------	---------------	----------	--------	-------

	PERCENT	RECOVERY
SURROGATE	RECOVERY	LIMITS
1,2-Dichloroethane-d4	113	(70 - 130)
Toluene-d8	101	(70 - 130)
4-Bromofluorobenzene	90	(70 - 130)

L0007264-5

GC/MS Volatiles

Lot-Sample #: H6A200140-002 Work Order #: HV1QX1AA Matrix: AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

		ESTIMATED	RETENTION	
PARAMETER	CAS #	RESULT	TIME	UNITS
Difluorochloromethane	75-45-6	11 NJ I	4 3.6155	ppb(v/v)
Methyl Alcohol	67-56-1	31 NJ 1	1 3.9714	ppb(v/v)
Acetonitrile	75-05-8	9.4 NJ 1	1 5.2386	ppb(v/v)
Methylene Chloride	75-09-2	9.1 NJ I	4 6.2416	ppb(v/v)

NOTE(S):

M Result was measured against nearest internal standard assuming a response factor of 1

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H6A200140 Work Order #...: HV46M1AA Matrix...... AIR

MB Lot-Sample #: H6A230000-287

Prep Date....: 01/21/06
Analysis Date..: 01/21/06
Prep Batch #...: 6023287

Dilution Factor: 1

		REPORTII	NG	
PARAMETER	RESULT	LIMIT	UNITS	METHOD
Bromodichloromethane	ND	0.20	ppb(v/v)	EPA-19 TO-14
Bromoform	ND	0.20	ppb(v/v)	EPA-19 TO-14
Dibromochloromethane	ND	0.20	ppb(v/v)	EPA-19 TO-14
Dibromomethane	ND	0.40	ppb(v/v)	EPA-19 TO-14
trans-1,2-Dichloroethene	ND	0.20	ppb(v/v)	EPA-19 TO-14
Cumene	ND	0.40	ppb(v/v)	EPA-19 TO-14
n-Propylbenzene	ND	0.40	ppb(v/v)	EPA-19 TO-14
1,2,3-Trichloropropane	ND	0.50	ppb(v/v)	EPA-19 TO-14
Dichlorodifluoromethane	ИD	0.20	ppb(v/v)	EPA-19 TO-14
Vinyl chloride	ND	0.20	ppb(v/v)	EPA-19 TO-14
Chloroethane	ND	0.20	ppb(v/v)	EPA-19 TO-14
Trichlorofluoromethane	ND	0.20	ppb(v/v)	EPA-19 TO-14
1,1-Dichloroethene	ND	0.20	ppb(v/v)	EPA-19 TO-14
1,1-Dichloroethane	ND	0.20	ppb(v/v)	EPA-19 TO-14
cis-1,2-Dichloroethene	ND	0.20	ppb(v/v)	EPA-19 TO-14
Chloroform	ND	0.20	ppb(v/v)	EPA-19 TO-14
1,1,1-Trichloroethane	ND	0.20	ppb(v/v)	EPA-19 TO-14
Carbon tetrachloride	ND	0.20	ppb(v/v)	EPA-19 TO-14
Benzene	ND	0.20	ppb(v/v)	EPA-19 TO-14
1,2-Dichloroethane	ND	0.20	ppb(v/v)	EPA-19 TO-14
Trichloroethene	ND	0.20	ppb(v/v)	EPA-19 TO-14
1,2-Dichloropropane	ND	0.20	ppb(v/v)	EPA-19 TO-14
cis-1,3-Dichloropropene	ND	0.20	ppb(v/v)	EPA-19 TO-14
Toluene	ND	0.20	ppb(v/v)	EPA-19 TO-14
trans-1,3-Dichloropropene	ND	0.20	ppb(v/v)	EPA-19 TO-14
1,1,2-Trichloroethane	ND	0.20	ppb(v/v)	EPA-19 TO-14
Tetrachloroethene	ND	0.20	ppb (v/v)	EPA-19 TO-14
1,2-Dibromoethane (EDB)	ND	0.20	ppb(v/v)	EPA-19 TO-14
Chlorobenzene	ND	0.20	ppb(v/v)	EPA-19 TO-14
Ethylbenzene	ND	0.20	ppb(v/v)	EPA-19 TO-14
m-Xylene & p-Xylene	ND	0.20	ppb(v/v)	EPA-19 TO-14
o-Xylene	ND	0.20	ppb(v/v)	EPA-19 TO-14
Styrene	ND	0.20	ppb(v/v)	EPA-19 TO-14
1,1,2,2-Tetrachloroethane	ND	0.20	ppb(v/v)	EPA-19 TO-14
1,3,5-Trimethylbenzene	ND	0.20	ppb(v/v)	EPA-19 TO-14
1,3-Dichlorobenzene	ND	0.20	ppb(v/v)	EPA-19 TO-14
1,4-Dichlorobenzene	ND	0.20	ppb(v/v)	EPA-19 TO-14
1,2-Dichlorobenzene	ND	0.20	ppb(v/v)	EPA-19 TO-14

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #: H6A200140	Work Order	#: HV46M1AA	Matrix AIR
		REPORTING	
PARAMETER	RESULT	LIMIT UNITS	METHOD
	PERCENT	RECOVERY	
SURROGATE	RECOVERY	LIMITS	
1,2-Dichloroethane-d4	108	(70 - 130)	
Toluene-d8	101	(70 - 130)	
4-Bromofluorobenzene	86	(70 - 130)	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Method Blank Report

GC/MS Volatiles

Lot-Sample #: H6A230000-287 B Work Order #: HV46M1AA Matrix: AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6A200140 Work Order #...: HV46M1AC Matrix.....: AIR

LCS Lot-Sample#: H6A230000-287

Prep Date....: 01/21/06 Analysis Date..: 01/21/06

Prep Batch #...: 6023287

Dilution Factor: 1

	PERCENT	RECOVERY	
PARAMETER	RECOVERY	LIMITS	METHOD
1,1-Dichloroethene	83	(70 - 130)	EPA-19 TO-14
Benzene	104	(70 - 130)	EPA-19 TO-14
Trichloroethene	101	(70 - 130)	EPA-19 TO-14
Toluene	120	(70 - 130)	EPA-19 TO-14
Chlorobenzene	115	(70 - 130)	BPA-19 TO-14
		PERCENT	RECOVERY
SURROGATE		RECOVERY	LIMITS
1,2-Dichloroethane-d4		105	(70 - 130)
Toluene-d8		97	(70 - 130)
4-Bromofluorobenzene		95	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6A200140 Work Order #...: HV46M1AC Matrix.....: AIR

LCS Lot-Sample#: H6A230000-287

Prep Date....: 01/21/06 Analysis Date..: 01/21/06

Prep Batch #...: 6023287

Dilution Factor: 1

	SPIKE	MEASURED		PERCENT	
PARAMETER	AMOUNT	AMOUNT	UNITS	RECOVERY	METHOD
1,1-Dichloroethene	10.0	8.27	ppb (v/v)	83	BPA-19 TO-14
Benzene	10.0	10.4	ppb (v/v)	104	EPA-19 TO-14
Trichloroethene	10.0	10.1	ppb (v/v)	101	BPA-19 TO-14
Toluene	10.0	12.0	ppb (v/v)	120	BPA-19 TO-14
Chlorobenzene	10.0	11.5	ppb (v/v)	115	EPA-19 TO-14
		PERCENT	RECOVERY		
SURROGATE		RECOVERY	LIMITS		
1,2-Dichloroethane-d4		105	(70 - 130)		
Toluene-d8		97	(70 - 130)		
4-Bromofluorobenzene		95	(70 - 130)		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

H6A200140



CHAIN OF CUSTODY/ANALYSIS REQUEST FORM

Exygen Research Sample Receiving • 3048 Research Drive • State College, PA 16801, USA T: 814.231.8032 • F: 814.231.1580 • exygenresearch.com

Page	of	

PROJECT	NFORMATION										AN	ALYS	ES REC	QUES	TED	
Client (na	me & address): Erggi-Risein	rih.			Proje	ect i	Man T	lager (Name	e & E-mail Address):	-						
					Proj	ect	Nam	ne:		-						
Phone: _				_					······································	-						
Fax:				_	P.O.	#:		<u>04/9</u>		-						
Sampler:					Quo	tati	on 7	F:	· · · · · · · · · · · · · · · · · · ·	-	1			1 1	1	
Ple	ase fill out this form <i>co</i>	mplete	/y to en	sure corr	ect a	analy	ysis a	and proper h	andling of your samples		2					
	···															
						e)	3 2				10					
SAMF	PLE ANALY!	515				osit	ber a									
ExyLIMS#	Client Sample Identificat	ion	Collection Date	Collection Time	Grab	Composite	Num	Specify Matrix	Comments	· · · · · · · · · · · · · · · · · · ·	1					
में "अस्त्	LO017264 - 4		1/17/06	1300			T	Air		· · · · · ·	4		 			_
	Live 7764-5		1/17/06	, 360			1	Ail			4					
** **	· ·										ļ			1		
		-									┼			┼		_
							-				 	$\vdash \vdash$		+-+		-
																_
LAB USE ONLY																_
CHAI	N OF CUST	OD	Y			c	ممامہ	· ID #	Cooler Temp. (°C)		_		REQ		MEN	5
Relinquishe		Date	Time		Por		d by		Date Tim		Ke	suits D	eadlin	e:		
Keiiriquisile		1/18/16				177	プン	A	V20/06 1110		Lal	orato	ry Rep	ort C	otion	- s:
		/// <i>////</i>			7-1	<i>a.e.</i>		J	17 29 05 1313				e result			
							51 (¹ 1		<u> </u>	12 - 1	1 ==		ase nari			
	<u>l</u>				LAB	ice o	NICV		Martin Ray		1 -		uality co			ry
OTHER IN	CODALATION! : ^	Λ(. 50 1 10			11857			<u>-</u>			alıbratio		nmary	
DIMEK IN	FORMATION 1-8 2×10	rs No	custedy	y 244111	いがり	217	31						aw data			
iccitems.	Ambient tracking	124	63 /X	4 6 5	18 /	-10						, Cuiei				

_	PLE	REC	CEIP	T/CONDITION UPON RECE	IPT ANOMALY CHECKLIST
Client: Eygen		Pro)ject:		Lot Number: _ +6A 20 6 140
Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
Do sample container labels match COC? (IDs, Dates, Times)				☐ 1a Do not match COC ☐ 1b Incomplete information ☐ 1c Marking smeared ☐ 1d Label torn ☐ 1e No label ☐ 1f COC not received ☐ 1g Other:	
 Is the cooler temperature within limits? (> freezing temp. of water to 6 °C; NC, 1668, 1613B: 0-4°C; VOST: 10°C; MA: 2-6 °C) 	0			☐ 2a Temp Blank = ☐ 2b Cooler Temp =	
3. Were samples received with correct chemical preservative (excluding Encore)?			~	☐ 3a Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?			}	✓ 4a Not present ☐ 4b Not intact ☐ 4c Other:	
5. Were all of the samples listed on the COC received?	~			☐ 5a Samples received-not on COC☐ 5b Samples not received-on COC☐	
6. Were all of the sample containers received intact?	/			☐ 6a Leaking ☐ 6b Broken	
7. Were VOA samples received without headspace?			V	☐ 7a Headspace (VOA only)	
8. Were samples received in appropriate containers?	1	Ĺ		☐ 8a Improper container	
9. Did you check for residual chlorine, if necessary?			/	☐ 9a Could not be determined due to matrix interference	
10. Were samples received within holding time?	1			☐ 10a Holding time expired	
11. For rad samples, was sample activity info. provided?	1		/	☐ Incomplete information	
12. For SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?			/	If yes & appears to be >1%, was SOG notified?	
13. Are the shipping containers intact?	V			☐ 13a Leaking ☐ 13b Other:	
14. Was COC relinquished? (Signed/Dated/Timed)	V			☐ 14a Not relinquished by client	
15. Are tests/parameters listed for each sample?	V			☐ 15a Incomplete information	
16. Is the matrix of the samples noted?	V			☐ 15a Incomplete information	
17. Is the date/time of sample collection noted?	V			☐ 15a Incomplete information	
18. Is the client and project name/# identified?			V	☐ 15a Incomplete information	
10 Was the complex identified on the COC?	1		1./		

Quote #:	5 1366	PM Instructions:				

Sample Receiving Associate:

QA026R17.doc, 10/3/05

Attachment F

Data Summary, Severn Trent Laboratories (Todd Giddings & Associates)

3049 Enterprise Drive

State College, PA 16801

Phone (814) 238-5927

January 24, 2006

Mr. Jeff Biss Exygen Research 3117 Research Dr. State College, PA 16801

ANALYTICAL LABORATORY REPORT

Sample Identification: L0007264-0003 (Outfall)

Date Collected: 01/17/06

Time Collected. 1300

Lab ID Number: 59283

Collected By: --

Analyte:	Result:	Analyzed by: Date/Time:
BOD (mg/l) SM 5210	< 2	DB 01/19/06 @ 1145

Submitted By:

Diane Bopp

Laboratory Manager





RUTGERS ORGANICS CORPORATION/EHS DEPT

201 STRUBLE ROAD

STATE COLLEGE, PA 16801

ACCOUNT 155

Contact RAINER DOMALSKI

Date Received

18-Jan-06

Date Reported

3-Feb-06

Invoice Number

35937

Date Collected 17-Jan-06

Client ID

INFLUENT 1-17-06

Lab ID

L7264-1

						_
			LIMIT			
			OF			
PARAMETER	UNITS	RESULT	QUANTITATION	TEST METHOD	TEST DATE	ANALYST
PESTICIDE ANALYSIS						
KEPONE	ug/L	U 0 042	0 042	SOP 6 2	1-Feb-06	CS
PHOTOMIREX	ug/L	U 0 006	0 006	SOP 6 2	1-Feb-06	CS
MIREX	ug/L	U 0 002	0 002	SOP 6.2	1-Feb-06	CS
SEMI-VOLATILE ANALYSIS						
ANTHRACENE	wa /I	- 10	10	EDA CARAC	26-Jan-06	CP
	ug/L	< 10		EPA 8270C		CP
BENZO (A) ANTHRACENE	ug/L	< 10	10	EPA 8270C	26-Jan-06	
BENZO (K) FLUORANTHENE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
3,4-BENZOFLUORANTHENE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
BENZO (B) FLUORANTHENE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
BENZO(G, H, I) PERYLENE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
BENZO (A) PYRENE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
CHRYSENE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
DIBENZ (A, H) ANTHRACENE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
FLUORENE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
INDENO(1,2,3-CD)PYRENE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
NAPHTHALENE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
PHENANTHRENE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
PYRENE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
PHENOL	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
4-METHYLPHENOL	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
1,3-DICHLOROBENZENE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
1,4-DICHLOROBENZENE	ug/L	43	10	EPA 8270C	26-Jan-06	CP
1,2-DICHLOROBENZENE	ug/L	2200	10	EPA 8270C	26-Jan-06	CP
DIMETHYL PHTHALATE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
BUTYLBENZYL PHTHALATE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
DI-N-BUTYL PHTHALATE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
2-METHYLNAPHTHALENE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
3,4-DICHLORONITROBENZENE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
DIPHENYL SULFONE	ug/L	250	10	EPA 8270C	26-Jan-06	CP
VOLATILE ANALYSIS						
VINYL CHLORIDE	ug/L	J 98	250	EPA 8260	20-Jan-06	YL
DICHLOROMETHANE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
1,1-DICHLOROETHENE	ug/L	5	5	EPA 8260	20-Jan-06	YL
CIS-1,2-DICHLOROETHENE	ug/L	2136	250	EPA 8260	20-Jan-06	YL





Report Report

RUTGERS ORGANICS CORPORATION/EHS DEPT

201 STRUBLE ROAD

STATE COLLEGE, PA 16801

ACCOUNT 155

Contact RAINER DOMALSKI

Date Received

18-Jan-06

Date Reported

3-Feb-06

Invoice Number

35937

Date Collected 17-Jan-06

Client ID INFLUENT 1-17-06

Lab ID L7264-1

			LIMIT			
			OF			
PARAMETER	UNITS	RESULT	QUANTITATION	TEST METHOD	TEST DATE	ANALYST
TRANS-1,2-DICHLOROETHENE	ug/L	19	5	EPA 8260	20-Jan-06	YL
CHLOROFORM	ug/L	15	5	EPA 8260	20-Jan-06	YL
1,2-DICHLOROETHANE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
1,1,1-TRICHLOROETHANE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
1,1,2,2-TETRACHLOROETHANE	ug/L	J 24	125	EPA 8260	20-Jan-06	YL
1,2-DICHLOROPROPANE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
TRICHLOROETHENE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
BENZENE	ug/L	48	5	EPA 8260	20-Jan-06	YL
retrachloroethene	ug/L	133	125	EPA 8260	20-Jan-06	YL
TOLENE	ug/L	19	5	EPA 8260	20-Jan-06	YL
CHLOROBENZENE	ug/L	J 32	125	EPA 8260	20-Jan-06	YL
ETHYLBENZENE	ug/L	10	5	EPA 8260	20-Jan-06	YL
M, P-XYLENE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
O-XYLENE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
ACETONE	ug/L	< 10	10	EPA 8260	20-Jan-06	YL
2-BUTANONE	ug/L	< 10	10	EPA 8260	20-Jan-06	YL
CHLOROMETHANE	ug/L	< 10	10	EPA 8260	20-Jan-06	YL
CIS-1,3-DICHLOROPROPENE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
TRANS-1,3-DICHLOROPROPENE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
BROMOFORM	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
DIBROMOCHLOROMEHTANE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
BROMODICHLOROMETHANE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
CARBON TETRACHLORIDE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
BROMOMETHANE	ug/L	< 10	10	EPA 8260	20-Jan-06	YL





RUTGERS ORGANICS CORPORATION/EHS DEPT

201 STRUBLE ROAD

STATE COLLEGE, PA 16801

ACCOUNT 155

Contact RAINER DOMALSKI

Date Received

18-Jan-06

Date Reported

3-Feb-06

Invoice Number. 35937

Date Collected 17-Jan-06

Client ID LGAC 2-3-1-17-06

Lab ID. L7264-2

	· •		LIMIT		_	-
			OF			
PARAMETER	UNITS	RESULT	QUANTITATION	TEST METHOD	TEST DATE	ANALYST
PESTICIDE ANALYSIS						
	/1	17				
KEPONE	ug/L	U 0 042	0 042	SOP 6 2	1-Feb-06	CS
PHOTOMIREX	ug/L	U 0 006	0 006	SOP 6 2	1-Feb-06	CS
1IREX	ug/L	U 0 002	0 002	SOP 6 2	1-Feb-06	CS
VOLATILE ANALYSIS						
/INYL CHLORIDE	ug/L	< 10	10	EPA 8260	20-Jan-06	ΥL
DICHLOROMETHANE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
L,1-DICHLOROETHENE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
CIS-1,2-DICHLOROETHENE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
TRANS-1,2-DICHLOROETHENE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
CHLOROFORM	ug/L	< 5	5	EPA 8260	20-Jan-06	ΥL
,2-DICHLOROETHANE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
, 1, 1-TRICHLOROETHANE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
,1,2,2-TETRACHLOROETHANE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
, 2-DICHLOROPROPANE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
TRICHLOROETHENE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
BENZENE	ug/L	< 5	5	EPA 8260	20-Jan-06	$_{ m YL}$
TETRACHLOROETHENE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
COLENE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
CHLOROBENZENE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
THYLBENZENE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
1, P-XYLENE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
)-XYLENE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
ACETONE	ug/L	< 10	10	EPA 8260	20-Jan-06	YL
-BUTANONE	ug/L	< 10	10	EPA 8260	20-Jan-06	YL
CHLOROMETHANE	ug/L	< 10	10	EPA 8260	20-Jan-06	YL
CIS-1,3-DICHLOROPROPENE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
TRANS-1,3-DICHLOROPROPENE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL







RUTGERS ORGANICS CORPORATION/EHS DEPT

201 STRUBLE ROAD

STATE COLLEGE, PA 16801

ACCOUNT 155

Contact RAINER DOMALSKI

Date Received

18-Jan-06

Date Reported 3-Feb-06

Invoice Number

35937

Date Collected 17-Jan-06

Client ID LGAC 2-3-1-17-06

Lab ID

L7264-2

			LIMIT OF			
PARAMETER	UNITS	RESULT	QUANTITATION	TEST METHOD	TEST DATE	ANALYST
BROMOFORM	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
IBROMOCHLOROMEHTANE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
BROMODICHLOROMETHANE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
CARBON TETRACHLORIDE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
BROMOMETHANE	ug/L	< 10	10	EPA 8260	20-Jan-06	YL





RUTGERS ORGANICS CORPORATION/EHS DEPT 201 STRUBLE ROAD STATE COLLEGE, PA 16801

ACCOUNT 155

Contact. RAINER DOMALSKI

Date Received 18-Jan-06

Date Reported 3-Feb-06

Invoice Number 35937

Date Collected 17-Jan-06

Client ID OUTFALL 1-17-06

Lab ID L7264-3

			LIMIT			
			OF			
PARAMETER	UNITS	RESULT	QUANTITATION	TEST METHOD	TEST DATE	ANALYST
PESTICIDE ANALYSIS						
KEPONE	ug/L	U 0 042	0 042	SOP 6 2	1-Feb-06	cs
PHOTOMIREX	ug/L	U 0 006	0 006	SOP 6 2	1-Feb-06	CS
11 REX	ug/L	U 0 002	0 002	SOP 6 2	1-Feb-06	CS
METHOXYCHLOR	ug/L	< 0 1	0 1	EPA 8081A	1-Feb-06	KAB
SEMI-VOLATILE ANALYSIS						
ANTHRACENE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
BENZO (A) ANTHRACENE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
BENZO (K) FLUORANTHENE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
3,4-BENZOFLUORANTHENE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
BENZO(B) FLUORANTHENE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
BENZO(G, H, I) PERYLENE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
ENZO(A) PYRENE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
HRYSENE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
IBENZ (A, H) ANTHRACENE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
LUORENE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
NDENO(1,2,3-CD)PYRENE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
IAPHTHALENE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
HENANTHRENE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
PYRENE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
HENOL	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
-METHYLPHENOL	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
, 3-DICHLOROBENZENE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
,4-DICHLOROBENZENE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
, 2 - DICHLOROBENZENE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
IMETHYL PHTHALATE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
SUTYLBENZYL PHTHALATE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
OI-N-BUTYL PHTHALATE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
2-METHYLNAPHTHALENE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
3.4-DICHLORONITROBENZENE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
DIPHENYL SULFONE	ug/L	< 10	10	EPA 8270C	26-Jan-06	CP
OLATILE ANALYSIS						
/INYL CHLORIDE	ug/L	< 10	10	EPA 8260	20-Jan-06	YL
DICHLOROMETHANE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
1.1-DICHLOROETHENE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
CIS-1,2-DICHLOROETHENE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL





RUTGERS ORGANICS CORPORATION/EHS DEPT

201 STRUBLE ROAD

STATE COLLEGE, PA 16801

ACCOUNT. 155

Contact RAINER DOMALSKI

Date Received 18-Jan-06
Date Reported 3-Feb-06

Date Reported 3-reb-

Invoice Number 35937

Date Collected 17-Jan-06

Client ID OUTFALL 1-17-06

Lab ID L7264-3

			LIMIT	_		
			OF			
PARAMETER	UNITS	RESULT	QUANTITATION	TEST METHOD	TEST DATE	ANALYST
TRANS-1,2-DICHLOROETHENE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
CHLOROFORM	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
1,2-DICHLOROETHANE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
1,1,1-TRICHLOROETHANE	ug/L	< 5	5	EPA 8260	20-Jan-06	$_{ m YL}$
1,1,2,2-TETRACHLOROETHANE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
1,2-DICHLOROPROPANE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
TRICHLOROETHENE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
BENZENE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
TETRACHLOROETHENE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
TOLENE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
CHLOROBENZENE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
ETHYLBENZENE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
M, P-XYLENE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
O-XYLENE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
ACETONE	ug/L	< 10	10	EPA 8260	20-Jan-06	YL
2-BUTANONE	ug/L	< 10	10	EPA 8260	20-Jan-06	YL
CHLOROMETHANE	ug/L	< 10	10	EPA 8260	20-Jan-06	YL
CIS-1,3-DICHLOROPROPENE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
TRANS-1,3-DICHLOROPROPENE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
BROMOFORM	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
DIBROMOCHLOROMEHTANE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
BROMODICHLOROMETHANE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
CARBON TETRACHLORIDE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
BROMOMETHANE	ug/L	< 10	10	EPA 8260	20-Jan-06	YL





RUTGERS ORGANICS CORPORATION/EHS DEPT

201 STRUBLE ROAD

STATE COLLEGE, PA 16801

ACCOUNT 155

Contact RAINER DOMALSKI

Date Received

18-Jan-06

Date Reported

3-Feb-06

Invoice Number · 35937

Date Collected 17-Jan-06

Client ID. TRIP BLANK

Lab ID L7264-6

			LIMIT			
			OF			
PARAMETER	UNITS	RESULT	QUANTITATION	TEST METHOD	TEST DATE	ANALYST
OLATILE ANALYSIS						
/INYL CHLORIDE	ug/L	< 10	10	EPA 8260	20-Jan-06	YL
DICHLOROMETHANE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
, 1 - DICHLOROETHENE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
IS-1,2-DICHLOROETHENE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
RANS-1,2-DICHLOROETHENE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
HLOROFORM	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
. 2 - DICHLOROETHANE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
, 1, 1-TRICHLOROETHANE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
,1,2,2-TETRACHLOROETHANE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
, 2 - DICHLOROPROPANE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
RICHLOROETHENE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
ENZENE	ug/L	< 5	5	EPA 8260	20-Jan-06	$_{ m YL}$
ETRACHLOROETHENE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
OLENE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
HLOROBENZENE	ug/L	< 5	5	EPA 8260	20-Jan-06	$_{ m YL}$
THYLBENZENE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
, P-XYLENE	ug/L	< 5	5	EPA 8260	20-Jan-06	$_{ m YL}$
-XYLENE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
CETONE	ug/L	< 10	10	EPA 8260	20-Jan-06	YL
- BUTANONE	ug/L	< 10	10	EPA 8260	20-Jan-06	YL
HLOROMETHANE	ug/L	< 10	10	EPA 8260	20-Jan-06	YL
IS-1,3-DICHLOROPROPENE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
RANS-1,3-DICHLOROPROPENE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
ROMOFORM	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
IBROMOCHLOROMEHTANE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
ROMODICHLOROMETHANE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
ARBON TETRACHLORIDE	ug/L	< 5	5	EPA 8260	20-Jan-06	YL
ROMOMETHANE	ug/L	< 10	10	EPA 8260	20-Jan-06	YL





CHAIN OF CUSTODY/ANALYSIS REQUEST FORM

Exygen Research Sample Receiving . 3048 Research Drive . State College, PA 16801, USA

7	T: 814	.231.8032	• F: 8	14.23	31.1	580 · exygenre	earch.co	om	_			Pag	ge	of	2
PROJECT INFORMATION										AN	ALY	SES	REQ	JEST	ED
					Project Manager (Name & E-mail Address):										
State College PA 16801 F					Project Name: Salem, Ohio Site P.O. #: Quotation #:										
	rrect analysis and proper handling of your samples.							te - Fr		& Hetals	700				
SAMPLE ANALY	Collection	Collection	Grab	Composite	Number of Containers					Cvanide	MPK	Iron	Kapor		
ExyLIMS# Client Sample Identific	ation Date	Time	ن خ		žŭ Z	Specify Matrix	Comm	ents	<u> </u>	-	2		\dashv		-
17264-1 Influent 1-17- 17264-2 LGAC 2-3 1-17-	 	+	X		2	Water				+	2		\dashv		+-
17264-3 Outfall 1-17-			×		5	Water			-	1	2	2	_		\perp
172644 AGAC 1-2 1-1	7-06 1-17-06	1300	X		1	Air				<u> </u>					
GREY-F AGAC F 1-1	7-06 1-17-06	1300	×	-	1	Air	_						-		+
CHAIN OF CUS'	TODY			Co	oler	в.х ID# <i><u>Сгеон</u>и</i>	- Su 152	a . Can ster Cooler Temp	22, 3 o. (°C) <u>4. 7</u>			T R			ENTS
Relinquished by Date Time		;	Rec	eived				Date	Time	_					
G.L.W.	1-17-0(1500			1/18/2w6 1000						Laboratory Report Options: Sample results only Add case narrative Add quality control summary					
OTHER INCORMATION			LAB U	ISE ON	ILY	6					Add	•	atıon	summ	-

__ Other



OTHER INFORMATION

CHAIN OF CUSTODY/ANALYSIS REQUEST FORM

Exygen Research Sample Receiving • 3048 Research Drive • State College, PA 16801, USA

Page	of	2
------	----	---

\			T: 814	.231.8032	• F:	814.	231.1	580 • exygenre	search.co	om				Pa	ge —	<u></u> ب	of <u>2</u>	<u></u>
PROJECT	INFORMATI	ON										AN	ALY	SES	REQ	UES	TED	
Rutgers Organics Corp.					Project Manager (Name & E-mail Address): <u>Dr. Rainer Domalski</u>													
			Project Name:									:		4				
Sampler: <u>Grecald</u> . L. Wilhelm			Quo	otat	ion i	#:							2	0		:		
Ple	ase fill out th	is form <i>complet</i>	<i>ely</i> to en	sure cori	rect	anal	ysis	and proper h	andling	of your sa	imples.				7.05	J	`	le N
SAMI	PLE AN	IALYSIS				Composite	Number of Containers					N.H.S	Voc	Bod	PH, TSS	0+6, TO	()	Pesticides
ExyLIMS#	Client Sample	Identification	Collection Date	Collection Time	Grab	Com	Cont	Specify Matrix	Comm	ents		72		B	, مـ	9	1	R
17264-1	Influent		1-17-06		×		1	Water					4		2			
1264-2			1-17-06		X	ļ	6	Water			····	+	4		2	_		
17264-3	Outfall	1-17-06	1-17-06	1300	×		12	Water				+_	4		2	Z	-	
											·	上						
121/4/-	Tr. Bland		12/05/05	1600			2	unter	<u> </u>			+	1-			_		
L71107-10	YS CAN	<u> </u>	1212 1102	1100			1~	water				+						
CHAI	N OF (CUSTOE)Y			· C	Coole	r ID # <i>[Row</i>	<u> </u>	Cooler Tem	p. (°C) <u>/, 7</u>	_	OJE(sults				MEN	JTS
Relinquishe		Date	Time		Re	ceive	d by			Date	Time	_					· ·	
G.L.W.		1-j7-2	150	2						1/18/2016	1000		borat	-	•		•	ns:
	<u> </u>		- 		-					+	-] Sam] Add			-		
										 		-	_		ty cor		summ	narv
					LAB	USE C	NLY		.	ــــــــــــــــــــــــــــــــــــــ	1		_	•	ration			

Add raw data Other